JANCIAL TIMES

Pinault Printemps

Suspicious of synergies

Page 17.



US telecoms





WEDNESDAY OVEMBER 6 1996

Deadly dithering



Eco-labelling

profusion

Technology in

the office The scramble for shares in the \$4700n world market for information technology and services is the main focus of horizon with the main focus of today's monthly review of IT. A second section also looks at the growth of India's \$1bn

Bertelsmann may allow outsiders to take stakes

German media group Bertelsmann is considering a corporate restructuring which would allow some of its units to be floated. Chairman Mark Wössner said the group, pre-dominantly owned by a foundation and the family of Reinhard Mohn, was thinking about making its four main business units - book publishing, printing, magazines and newspa pers, and television and entertainment - into public companies. Page 15

New PM appointed in Pakistan



torial Comment, Page 13

Pakistan's new government was sworn in as former prime minister Benazir Bhutto remained under what amounted to house arrest in Islamabad Interim prime minister Meiraj Khalid (left) said "free, fair and impartial

elections" would be held on February 3. President, Faroog Leghari sacked Ms Bhutto's government on charges of corruption, after months of bitterness between the two leaders. Page 14; Bhutto swamped by a wave of allegations, Page 6; Edi-

Valeo stake sold for \$1.24bn: The controlling 27.4 per cent stake in Valeo held by Cerus, Carlo De Benedetti's French holding company, was sold to three separate buyers for FFr6.83bn (\$1.24bn) valuing the French car parts maker at more than FFr23bn. Page 15; Lex.

Deal reached on Postbank self-off: Deutsche Post, the German post office, and Postbank, the postal savings bank, reached an agreement that should enable Postbank shares to be sold to private investors. Page 3

Gorman companies pessimistics Comman, companies remain downbeat about prospects for growth, a survey shows. Page 3.

Change urged in EU bond rules: Investment banks are pressing European central banks to relax tight regulations on government bond auctions after the inception of European monetary union, scheduled for 1999. Page 2

Some European companies could face unexpected tax bills as a result of European mone. tary union, accountants are warning, because companies will need to revalue long-term assets and liabilities denominated in foreign currencles. Page 14

Japan seeks \$30n bankruptcy: The Japanese government agency charged with recovering debts owed to failed housing loan companies started bankruptcy proceedings for Y347bn (\$3bn) against Osaka property developer Sueno Kosan. Page 14

'Open skies' talks restart: Negotiators from the UK and the US meet in Washington today in an attempt to restart aviation talks aimed at reaching an "open skies" agreement between the two countries. Page 5; Tribunal accepts BA joint bid for Air Liberté, Page 15

Kazakhstan gets credit rating: Kazakhstan, the central Asian republic rich in oil and gas resources, was given BB- speculative grade credit ratings by two of the leading US and European rating agencies. Page 7

UK to reise spending: The UK cabinet agreed to increase public spending in real terms

Argentina may sell oil company stake: The Argentine government may sell its 20 per cent stake in the country's largest oil company,

FT.com; the FT web site provides online news, comment and analysis at http://www.FT.com

(Dec) .\$379.6 (same

close \$379.35 (378.95)

DOLLAR

New York lunchtime

STOCK MARKET MIDICES M GOLD

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The West is always too late in Africa

Edward Mortimer, Page 12

Confusion of

Technology, Page 10

Yeltsin's heart operation hailed as total success

By Chrystia Freeland

Russian president Boris Yeltsin yesterday underwent a multiple heart bypass operation which surgeons declared "a complete success" but said had been more complicated than expected.

Mr Yeltsin recovered consciousness and opened his eyes yesterday evening following the seven-hour operation. Doctors expected to keep him on an artificial ventilator until at

least this morning.
Dr Renat Akchurin, the surgeon who led the 12-strong all-Russian team which performed the operation, said they had had to bypass more than the three or four arterial blockages

which had been expected. He would not specify the number of bypasses performed, saying it was "the personal affair" of the president and that he was not authorised to reveal it.

Western medical experts said it was unusual to have to bypass more than four blockages, and the multiple operation indicated severe weakness of the heart. The seriousness

of the procedure could complicate the president's convalescence. Doctors also said the length of the operation, double the three or four-hour standard for a heart bypass, suggested Mr Yeltsin's ail-

ments were extensive. Before the operation, Mr Yeltsin temporarily handed over all his presidential authority, including control of Russia's nuclear arsenal, to Mr Victor Chernomyrdin, the Russian prime minister. Those

Russia all smiles... Pege 2 Inti Capital Markets... -- Page 24

powers will be returned to the president when he signs a sec-

Kremlin officials did not specify when Mr Yeltsin would take back his political mantle, but said he would decide himself when he was again fit enough to rule Russia. Before the operation, aides had said Mr Yeltsin would do so as soon as he had regained conscious-

leader will return to active politics, would become apparent only over the next few days during the difficult post-opera-

tive period. However, other physicians were less reserved. Dr Yevgeny Chazov, the cardiologist who prolonged former Soviet leader Leonid Brezhnev's tenscious grip on life in the 1970s and 1980s, said "the operation went better than expected".

Dr Michael DeBakey, the US

pioneer of heart bypass surgery, who watched the opera-tion on a monitor with three other western doctors, said it had been "a complete succ The operation deflected much of the country's atten-tion from a nationwide strike,

called to protest against wage

arrears which have left millions of workers without salaries for several months. The action drew tens of thousands of participants in hundreds of cities across Russia, but did not have the impact which organisers had promised. In his new role as



Prime minister Victor Chernomyrdin remains leader of Russia

presidential stand-in, Mr Dr Akchurin said the results of the surgery, and an indica-Continued on Page 14

plans overhaul to save \$589m

Services and ground support staff to be cut

KLM, the Dutch international airline, is to cut ground support staff, shed unprofitable routes and halt aircraft orders in a three-year programme to save FI 1bn (\$589m) .

Mr Pieter Bouw, president. said yesterday: "The drastic a less complex KLM organisation." Fleet and crew costs will have to be cut substantially, he said. This is likely to involve external sourcing - in reservations and heavy maintenance - and securing further industry alliances.

"We need a European partner," he reiterated, and hinted that KLM was pursuing a longsought tie-up. But he declined to confirm that any talks were in progress. Theria of Spain and Italy's Alitalia have been

mentioned as possible part- ordinary equity in Northwest, ners, although some obs believe KLM should join a stronger existing grouping.

Mr Bouw revealed the overhaul as the company announced a 14.6 per cent dip nature of the changes requires in second-quarter net profits to Northwest helped KLM reduce F1258m, in spite of a 7.2 per cent rise in revenues to FI 2.82hn. The downtorn was blamed on higher fuel and salary bills. In the half year to Septem-

> per cent to FI 529m - but the gain was due to proceeds from the sale in summer of preference shares in Northwest Airlines, the US carrier with which KLM has had a troubled seven-year relationship.

the fourth-largest US airline, but is prevented from voting with its full holding under Northwest's anti-takeover

A shift of some services to capacity to North America by 6 per cent in the second quar-ter. With strong cargo demand from Asia-Pacific, KLM increased by 15 per cent the number of tonne-kilometres ber, after-tax earnings rose 21.1 flown there.

Among the cuts, however Mr Bouw said it had been "decided to suspend any further expansion of the European fleet within KLM. Several outstanding aircraft orders for the intercontinental fleet will KLM owns 25 per cent of the be reconsidered." Existing orders would be honoured. On the ground, he noted: "New providers of specialised services, such as in the area of reservations, are appearing. These service providers can deliver a very sharp price/quality ratio We shall therefore most certainly examine

Shares in KLM added F1 1.90, or 4.5 per cent, in Amsterdam to close at Fl 43.80. Mr Bouw

services.

the opportunities for oursourc-

ing and spin-offs of support

per cent return on equity, the company would seek to increase operating results by Fl 500m within the three-year programme. This would involve "withdrawing from less profitable routes and redeploying the capacity".

He also some said some onboard service standards would be downgraded. KLM has been engaged in a fares war on its high-volume London route with no-frills carriers such as EasyJet, with which it is in a legal dispute.

World stocks, Page 36

Doctors say seven hours of surgery more complicated than expected | Bayer in talks over DM20bn chemicals acquisition

By Jenny Luesby in Leverkusen, Germa

Bayer, the German chemicals and pharmaceuticals company, said yesterday it was shopping for a large acquisi-tion that could be worth as much as DM20bn (\$13.2bn).

Unveiling results for the first nine months of the year. Mr Manfred Schneider, Bayer's chairman, said the group had held preliminary talks with Ciba of Switzerland

and Monsanto of the US. Both Ciba and Monsanto have said they plan to spin off their chemicals businesses. Bayer is interested in a direct

trade purchase. Mr Schneider said Bayer would be able to take on far more debt than it had at present "if we find the big project we are looking for". Net debt stood at DM1.1bn at the end of

Mr Helmut Loehr, finance director, said net debt of DM10bn would be comfortable, but the group would be willing to increase it to a maximum of DM20bn.

Mr Schneider denied Baver was in merger talks with BASF, its German rival, although he did say a tie-up between the life sciences operations of the two companies was "a possibility".

Bayer's expansion plans ome as many chemicals and pharmaceuticals groups are separating the management - and in some cases the ownership - of the two busine Yet Mr Schneider was emphatic that Bayer had no plans to separate its pharmacenticals and chemicals concerns. It had yet to be shown that such demergers created shareholder value, he said.

Mr Schneider warned that the group would not now meet its goal of a 10 per cent increase in annual pre-tax profits this year. "The slugomy in Europe and growing pressure on prices have under ened our optimism," he said. sure on prices have damp-Also, unexpected exceptional charges, principally in

Continued on Page 14

Italian and Spanish bonds surge on Emu expectations

By Richard Lapper in London and David Buchan in Paris

Italian and Spanish government bond prices yesterday surged on renewed expectations that the two countries could become founder members of European monetary

Spanish 10-year bonds now yield about an eighth of a percentage point less than UK government bonds or gilts. while Italian bonds are only about a sixth of a percentage point more. As recently as Jan-uary, Italian 10-year bonds yielded nearly 3 percentage points more than gilts.

"It has been a massive con-vergence day." said Mr Alex Cooper, manager of Tullett and Tokyo, a futures broker at the London International Financial Futures and Options Exchange. Pointing to heavy buying by large US hedge funds as well as by other institutional investors, he said that "convergence trades are right back on".

Yield spreads

Chirac, French president, that analysts as one factor which the others."

Spain would be ready to join Emu in 1999, were cited by

encouraged buying. "We have no doubt as regards Spain but Italy has shown the same will," Mr Chirac, said after the is ready at the same time as

Comments by Mr Jacques reports in the European press,

a number of investors are expecting a report by the Euro-pean Commission – scheduled for publication today - to take an optimistic view of Spain's ability to meet Maastricht Emu criteria by paxt year. Ms Sharda Persaud, London based European economist

with Italy's San Paolo Bank, said many investors believed the German authorities were now prepared to accept a more flexible interpretation of the Maastricht targets in exchange for a strict post-Emu stability pact. This pact will help set the economic policy framework for Emu members.

A strong performance by the US and German bond markets buoyed the higher-yielding European markets. German manufacturing orders fell 3.6 per cent in September, compared with August. This suggests third-quarter growth will Franco-Spanish summit in be slower than in the second Marseilles. "We hope that Italy quarter and inflationary pres-

In addition, following Change in rules urged, Page 2; Bonds, Page 24



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Investment banks fear discrimination in government auctions

Change in EU bond rules urged

Economics Staff, in London

Investment banks are pressing European central banks to relax tight regulations on government bond auctions after the inception of European monetary union, scheduled for 1999.

At present, several pro-spective Emu member countries require investment banks to have a separate local office in the country if they wish to deal in government debt.

Banks fear that retaining. or even tightening, these rules could add severely to their operating costs and that the rules may be used

Welfare

jobs hope'

By Andrew Bolger, Employment Correspondent in Brussels

European countries should

tackle unemployment by altering their welfare

systems to encourage devel-

opment of a low-wage labour

market, according to Profes-

sor Fritz Sharpf, director of

the Max-Planck institute in

He told the fourth annual

Employment Week confer-

ence in Brussels that high

levels of employment in

Europe were unlikely to be

achieved without an expan-

sion of the private service

"Much of that employment

will have to be in areas that

are not exposed to foreign

competition, but the rela-

tively low productivity of

service work will allow only

relatively low wages to be

paid by profit-oriented pri-

vate employers," said Prof

Given the need to rely on

low-wage jobs, social justice

could only be maintained if

income from work could be

combined with social

Prof Sharpf said this basic

concept was already a part

of social policy in several

European countries, albeit

on a very restricted scale. In

Ireland, Italy and in the UK

plementing income from

work for families with small

children, and the same pur-

pose was achieved by the

earned income tax credit in

"From a social policy point of view the 'family income

supplement' or family credit

programmes are greatly

superior to welfare systems

that create unemployment

and poverty traps because

social benefits are com-

pletely displaced by any

"From an employment per-

spective however, the fact

these programmes are tar-

geted to assist poor families

with small children reduces

their potential in countries

where low-wage jobs do not

at present exist in large

"In order to invest in the

creation of new jobs in mar-

kets for commercial services

that still need to be devel-

oped, private employers need

to be assured that workers

will generally be available at

wage costs below present

"Thus any income subsidy

would need to be defined

with regard to the wages

associated with the job

rather than to the poverty

and the family status of

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potential employees."

THE FINANCIAL TIMES

income from work.

there were programmes sup-

income, he added.

Sharpf

the US.

reform

'offers

proposed single currency area to discriminate against countries which are outside

"There are concerns about protectionist tendencies. said a senior adviser to a large investment bank in

Individual banks and trade bodies, such as the London Investment Banking Association, are pushing for the restrictions to be

However, some central banks have resisted these calls, and there are growing fears that countries would retain the regulations in an attempt to boost their stand-

By Andrew Jack in Paris

parliamentary committee

yesterday called for wide

reform of banking in France

in an attempt to reduce com-

petitive distortion and

increase the sector's low

In an influential report,

following an inquiry lasting more than six months, the

Senate finance commission

has proposed modifying in

the statutes of the Caisse

d'Epargne savings bank.

changing labour and tax reg-

ulations, and introducing

payment for basic banking

Its conclusions provide an

important new push in grow-

ing pressure for reform. Mr

Alain Lambert, the commis-

sion's secretary, said they

senior

profitability.

services.

French

by countries within the ing as a financial centre within monetary union.

At a Brussels meeting last from three European countries rebuffed calls by one large US investment bank for a relaxation of the

French and German banks have lobbied the European Monetary Institute, the forerunner of the European Central Bank, to support the tight regulations. But there are also con-

cerns that the rules might be relaxed for banks from countries within the single currency area but retained for countries which stayed out-

were likely to form the basis

of a new banking law being

"The banking sector is fac-

"There is an extraordinary

ing a crisis without prece-

misunderstanding by the public of the reality facing

The report says that own-

ership of the Caisse d'E-pargne, frequently criticised

by its rivals for offering

loans at unprofitably low

rates, is unclear. It should

modify its statutes to clarify how it is controlled, and pay

to the state the FFr62bn

(\$12bn) in accumulated prof-

The Post Office, too,

should make clear the cost

of providing financial ser-

vices which compete with

the commercial banks, says

its that it holds.

dent," he said.

drafted by the government.

for banks from non-Emu countries wishing to operate within monetary union. If. for example, Britain chose not to join the single currency, it could damage London's standing as a financial centre, bankers in London

"We have a concern that there might be a temptation for Emu-in countries to arrange their affairs in a way which would discriminate against Emu-out countries," said Mr Kit Farrow, director general of

Differences are also emerg-ing between European officials about plans to co-ordi-

The senators say that over

the next few years tax-ex-

empt savings products, such

as the Livret A currently

available through the Caisse

d'Epargne and the Post

Office, should be sold by all

in the law which in practice

prevents banks from going

bankrupt, arguing that, as

long as there is an adequate

deposit protection scheme,

banks should be allowed to

The report urges the gov-

ernment to sell off most of

the banks still in public own-

ership, retaining only those

institutions with a genuine

public service mission which

cannot be provided by the

private sector - such as

long-term finance to small

fail like other companies

They also call for changes

the country's banks.

This would impose costs nate countries' borrowing policies after Emu.

ments' borrowing means there could be a need for an auction calendar to avoid countries tapping the European government bond market all at once. But this prooosal has been hotly resisted by one country which would prefer to retain the ability to tap bond markets when it

Bond auctions are exempt from single market legislation which would normally force countries to open up fully their internal markets since they are deemed to be linked to monetary policy which is exempt.

ers for the use of cheques

and be allowed to pay inter-

est on accounts, neither of

The 1937 regulation limit-

ing working hours in banks

needs to be changed and a

special tax on bank payrolls

In an interview, Mr Lam-

bert also highlighted weak-

nesses in the country's sys-

and the controlled" were

often drawn from the same

There was a need, he said,

to diversify the methods of

recruitment, but the report

stops short of making recom-

mendations on how to do so.

Bulgarian

premier

urged to

Senior figures in Bulgaria's

Socialist party yesterday

called for the resignation of

Mr Zhan Videnov, the prime

minister, after the party's

hattering in the weekend

presidential election. AP

The challenge came in a

letter on the front page of

the party newspaper Duma,

two days after voters elected

opposition candidate Mr

Petar Stovanov as president

Lilov, a former party chief

who remains influential

among Bulgaria's former

communists, 19 officials said

Mr Videnov had forfeited his

right to govern because of

the country's economic trou-

Underscoring the eco-

nomic crisis, government

officials were in Brussels

seeking aid from the Euro-

pean Union to ensure they

could buy enough grain for the winter while the official

BTA news agency said the

International Monetary

Fund proposed the creation

of a currency board to man-

age Bulgaria's finances.

Experts said such a board

would aim to restore finan-

Mr Videnov has said he

would seek a vote of confi-

dence at a party meeting

next Monday. But he said

there was no reason to quit

unless someone had an alter-

cial discipline.

Led by Mr Alexander

resign

reports from Sofia.

elite of top civil servants.

abolished.

which is permissible at pres

Senate inquiry calls for wide reform of French banking the committee, banks should be allowed to charge custom-

against calling him. However, Socialist party

The Supreme Court decision also exempted from testifying two other Socialist politicians. Mr Narcis Serra. former deputy premier, and Mr José Maria Benegas, a prominent Basque figure in the party.

Mr Ricardo Garcia Damborenea, a disaffected former local party leader in the Bilbao region, claimed to have discussed covert anti-terrorist activities on several occasions with Mr González, and Mr Julián Sancristóbal, former director of state security, said he was convinced the prime minister must have been in the know. Both

fully behind the anti-terror-

"The Gal case does not end here," the Communist-led United Left party said after the court announcement. The daily El Mundo, which has played a leading role in the allegations against Mr González, said the decision flouted the principle of



Dirty war shadow still over

By David White In Madrid

González

Mr Felipe González is not yet out of the woods in Spain's "dirty war" affair, in spite of a Supreme Court decision in his favour.

After a marathon session lasting until after midnight on Monday, the court voted six to four against calling the Socialist former prime minister to answer allegations that he authorised a covert campaign against Basque extremists based in France in the 1980s.

Suspense over the out-come of the public hearing was prolonged by a split among the judges. The final decision, which met wide-spread relief in political circles, upheld the stance taken in April by the supreme court's examining judge assigned to the case, who found there was no evidence to back the accusations against Mr González. State prosecutors also argued

officials said they feared the affair would continue to bedevil the former premier, with a series of related cases already under way.

tem of banking supervision, arguing that the "controllers The accusations against Mr González were made during an investigation into a bungled 1983 kidnapping, the first action claimed by the murky Anti-Terrorist Liberation Groups (Gal), which is also held responsible for about 25 murders. His former interior minister. Mr José Barrionuevo, faces charges along with 14 others on grounds of association with an armed band, illegal detention and misuse of pub-

A more recent accusation came from Mr Luis Roldán, former head of the paramilitary Civil Guard police force, currently in jail facing fraud charges. He claimed to have been told by Mr Barrionuevo that the prime minister was ist campaign.



PRESIDENT OF THE RUSSIAN FEDERATION

French rail bre

German (c. 14)

Russians are allowed

«Croatia xa 👢 🔨

Communists Here in

Normal acts to the

You know that I will undergo a serious operation.

Today I want to say thank you to those who have
been sending letters and telegrams wishing their president the speediest recovery.

Sympathy and a good word are sometimes more important to a person than any medicine. My family is helping me in this difficult moment, taking care of me. My thanks to my wife, daughters

Thanks to you all.

My family and friends are concerned on the eve of the operation, they are nervous. But I am sure everything will go all right.

During the operation I have by decree transferred all presidential powers to the head of the government. Victor Stepanovich Chernomyrdin. Not for a minute will the country be without a leader with full powers. He and my other colleagues are tested and reliable people. They will have great responsibility in the time to come.

I do not intend to stay long in the hospital. I believe I will soon be working at full strength, as I did before.

Be aware that everything I have done, am doing and will do is all for the sake of Russia, for your well-being and for a worthwhile life. It is especially important for me that you know

I wish you all health and peace and good luck.



Yeltsin's letter to the Russian people published yesterday

Official Russia all smiles after Yeltsin ordeal

cameras and the thoughts of foreign governments were focused yesterday on the Moscow Cardiological Centre, the sprawling concrete crescent where Russia's most famous heart underwent a gruelling seven-hour bypass opera-

But for many of the ordinary Russians who earn meagre salaries at the hospital President Boris Yeltsin's long-awaited surgery was a matter of little concern.

"It makes no difference to me what the outcome is," said Oleg, a 38-year-old electrician in a scruffy leather jacket as he walked down the cigarette-strewn footpath leading to the hospital. "No matter what happens, the situation won't change. he doesn't run the country anyway.'

Other passers-by, includmen have been charged in ing a young doctor who the case. dle-aged woman struggling to qualify for treatment there, and several nurses and lab technicians, said life was proceeding as usual inside the Cardiological Centre, although a few complained about heightened security.

But in this desert of popular indifference, Russia's first family and its chosen surgeons formed an oasis of anxiety.

Their ordeal began at 4am, when Mr Yeltsin, always an early riser, carefully combed his hair and put on his favourite sweater.

Then his motorcade raced from the darkness of the countryside into the city and up the wooded slope to the Cardiological Centre, surprising militiamen who said they had not been told in advance.

At 7am, after signing a few decrees, including an emotional appeal to the Russian people and an order temporarily handing presidential powers to Mr Victor Chernomyrdin, the prime minister, Mr Yeltsin submitted himself to the clamps and scalpels of a 12-person all-Russian surgical team. Four western doctors, including Dr Michael DeBakey, the US pioneer of

The lenses of television heart bypass surgery, watched on video monitors. but were not asked to intervene or offer advice.

After more than eight hours, the team's leader, Dr. Renat Akchurin, emerged in his surgical whites, looking tired but relieved to tell reporters about the stress of cutting into the Kremlin's most powerful arteries.

"I tried to forget that it was the president of Russia and remember it was just a sick man," he said.

Mrs Naina Yeltsin, the president's wife, who herself underwent a kidney operation over the summer. seemed even more tense.

In a brief television interview in the dark corridors of. the Cardiological Centre, Mrs Yeltsin said she and "the girls" - the president's two adult daughters - had not yet been permitted to see Mr Yeltsin.

Chrystia Freeland sets the scene on the day of the big operation

Beneath the nerves and exhaustion, official Russia seemed elated by the outcome of the president's operation. A nurse in the Cardiological Centre said the surgeons indulged in a champagne toast before facing reporters.

Kremlin officials seemed equally pleased. Mr Sergei. Yastrzhembsky, the president's press secretary. grinned broadly during an evening television interview. He took particular delight in teasing Russian news agencies for failing to believe Kremlin press aides when they telephoned at-7.20am yesterday with news that the president's operation had begun.

He said it had taken bis own voice to convince journalists. It will take the return of a vigorous President Yeltsin to active polities to convince Russia's equally sceptical citizens that he really does rule the

Fragile Romanian coalition bears heavy burden

he votes of Romania's young people, its city dwellers and its business class propelled the centre-right Democratic Convention into first place in Sunday's parliamentary elections. Now they are looking to it to speed the country's transformation into a modern western-style democracy, capable of joining Nato and the European Union.

FRANCE: Publishing Director: P. Maravigla, 42 Rue La Boète, 7508 PARIS. Telephone (01) 5376 8254, Fax (01) 5376 8253. Printer: S.A. Nord Eclair. 15/21 Rue de Caire, F-9/00 Roubay Cedex 1 Enhort Richard Littibert. ISSN 1148-2753. Commission Partiers. Na Front P. The Convention, which finished eight percentage points ahead of the former Communists, was due to start talking today with Mr Petre Roman's centrist Reponsible Publisher: Hugh Carnegy 468 618 6088. Printer: AB Kvällstidningen Expressen. PO Box 6007, \$-550 06, Jönköging. Social Democratic Union (USD) on forming the country's first anti-Communist coalition since the over-

> throw of the Ceausescu regime in 1989. It has promised to accelerate economic reform, free

unload until the government promises to apply safety laws and to stop loading at night or during heavy seas," a Greenpeace spokesman said.

Vardinoyannis family's Motor Oil Corinth Refineries and the accompanying Avinoil Industries distribution network in Greece

"We will stop all docking to load or

Aramco bought a 50 per cent stake in the for \$379m earlier this year.

itself a coalition of some 15

centre-right, liberal and

"green" groups, is led

unpopular but urgent mea-

sures to get an insufficiently

restructured and overheat-

ing economy back on track.

tions, the PDSR granted

ture, which accounts for 35

In the run-up to the elec-

native policy.

The presidency is largely ceremonial, but Sunday's vote was seen as a referendum on the Socialist govern-

Voters have invested much hope and expectation in a prospective government lacking experience and a detailed policy, writes Virginia Marsh in Bucharest private initiative and opponent. The Convention, pay rises to public sector workers, contributing to an average monthly inflation of

3 per cent, double last year's

mainly by relatively inexperate. The outgoing governrienced academics and for-mer dissidents whose platment has also kept the currency, the leu, at an artifiform some consider to be cially high level, a factor over-optimistic and lacking behind a 10 per cent drop in exports in the first half and The prospective governrecent shortages of foreign ment also faces a winter of exchange difficult decisions on The biggest immediate

hurdle, however, is for the two opposition groups to overcome their personal differences and agree on a governing alliance - although a new administration cannot be formed until after a president has been elected on

President Ion Illescu, a one-time Ceaușescu aide who is the main power behind the PDSR, will face the Convention's Mr Emil Constantinescu in a run-off which analysts say could go either way.

Although the two opposition alliances campaigned on compatible platforms, many Mr Roman, a reformist former prime minister, and his party of technocrats because of their participation in the country's first post-Communist government.

In the violence and chaos worked alongside Mr Iliescu

and the other former senior Communists who took control of Romania and went on to win the first elections by a landslide. However, Mr Roman and the technocratic part of the cabinet differed with the president over the pace of change and the government was toppled by anti-reform riots led by minin the Convention distrust ers loyal to Mr Iliescu in September 1991.

Moscow-educated politician. has since become a greater proponent of change. by western leaders, he has that followed Ceausescu's overseen Romania's rapoverthrow, Mr Roman prochement with the west. After the opposition won

The president, a pragmatic the opposition to include his Although initially shunned

June's local elections, and sensing the population's impatience with rampant corruption and hesitant government, Mr [liescu instructed the PDSR to favour its more reformist wing when selecting paritsmentary candidates.

The president, who commands strong support in rural areas, where nearly half Romania's 23m population lives, hopes his efforts to clean up his party will help him to a third term. He also hopes that if re-elected he can eventually persuade party in a broad coalition.

Although the Conventionhad won 30 per cent in the parliament contest with 98 per cent of votes counted by last night, the PDSR will remain the largest single party with about 22 per cent

Jönköping.

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Paritage No 67908D. SWEDEN:







Greenpeace activist sits atop a loading buoy at the refinery

Greenpeace activists yesterday blocked the

port facilities of the Motor Oil refinery, Greece's largest, jointly owned by Saudi Aramco and the Vardinoyannis family,

environmental pressure group claims the

manoeuvred to stop tankers from arriving

or leaving and the Greenpeace ship Arctic Sunrise docked at one of the loading berths.

Reuter reports from Athens. The

facilities are unsafe. Its speedboats

Environmental protests at Greek oil refinery

develop the civil society that

was destroyed by Nicolae

Ceausescu's highly repres-

It is also set to replace a

government which took a

hesitant and often incoher-

ent approach to market-led

corrupt business elite,

neglecting welfare and refue-

ing to decentralise power in

what is one of eastern

Europe's largest and most

ethnically diverse countries.

coalition is likely to be frag-

However, the expected

ile and the outgoing Party of

which may yet win the presi-

change, while fostering a in detail.

Social Democracy (PDSR) - large subsidies to agricul-

dency - will be a tough per cent of employment, and

sive reign.



EUROPEAN NEWS DIGEST

French delay rail break-up

The French government has postponed parliamentary debate of its plan to split the country's rail system into separate track maintenance and operating companies.

Mr Bernard Pons, transport minister, told the National Assembly that the government still aimed to create next year a new state entity to take over responsibility for FFT125bn (\$24bn) of the SNCF rail company's debt and for maintaining and building rail track - leaving the SNCF purely as the national rail operator.

But the scheme would not be presented to parliament next week, as planned, because of "sensitivities" inside SNCF and among MPs. These had been exacerbated by the European Commission's plans to try to introduce cross-border competition in rail. Mr Pons said Brussels' moves had stirred "anxiety and doubt" among rail unions The unions have demanded the government maintain SNCF's rail operator monopoly and guarantee the jobs of 40,000 track maintenance workers. Anxious to avoid any repeat of last autumn's rail strike, Mr Pons has decided to play for time by commissioning a further study of the new rail track company.

German terrorist is jailed



Red Army Faction terrorist Birgit Hogefeld, 40. (pictured above in court yesterday) was jailed for life for murder and for attempting to assassinate Mr Hans Tietmeyer, now president of the Bundesbank. She was found guilty of the murder of a US soldier and two others in an attack on the US Rhein-Main zirbase near Frankfurt in 1985, an assassination attempt against Mr Tietmeyer in 1988, and an attack on a newly built prison in 1998. She was acquitted of causing the death of a police officer in a special security forces operation at Bad Kleinen, eastern Germany, in which she was arrested in June 1993. More than 20 members of the extreme leftwing RAF have been jailed for murder and attempted murder since the now-defunct terrorist group began its campaign at the end

Russians in diamonds probe

A Russian government investigation has revealed serious financial violations at the state diamond company Almazy Rossii-Sakha (ARS). An audit is planned of its ties to the De Beers diamond cartel. The government has given the president of the republic of Yakutia, where ARS is based, week to remove the officials running the company. Russia's prosecutor general is also investigating the company. Mr Alexander Livshits. Russia's finance minister, said fines for ARS's violations of foreign exchange regulations alone amount to more than \$379m.

In August, a government report showed Rbs3,100bn (\$570m) of debts despite reported 1995 revenues of \$1.380n The report said ARS management diverted hundreds of billions of roubles since the company was founded in 1982 to costly and unprofitable projects. Meanwhile, dividends were never paid on the state's controlling stake in the company. ARS is state-owned, but controlled largely by local authorities in Yakutia, which strives for econom 98 per cent of Russia's diamond production, is one of the country's largest export earners.

Croatia says UN can stay

i taria:

Croatia yesterday said it would extend the UN mandate in eastern Slavonia for six months, abandoning its demand for the peacekeeping force to withdraw by spring. Croatia's foreign minister, Mr Mate Granic, said he expected the UN Security Council this week to pass a resolution extending the UN mandate until mid-July. He said an additional monitoring mission would be deployed after July for six months while Croatia took control of the region, the last Serb-held area in the country.

Eastern Slavonia is home to 150,000 Serbs. The Croatian army seized two other Serb-held regions - part of a rebel state - in 1995, causing 180,000 Serbs to flee Croatia. The UN is anxious to prevent another flood of refugees when Croatia takes control of the region. Laura Silber, Belgrad

Communists go on trial

Lithuania's former communist leaders went on trial yesterday for their part in the crackdown by Soviet troops in Vilnius in January 1991, when 13 people were killed. Mr Mykolas Burokevicius, the former Communist party chief and Mr Juozas Jermalavicius, the former party ideologist, are accused of murder and attempting a coup. Mr Burokevicius, 71, who fled to Russia after Lithuania gained its independence, has denied any responsibility for the crackdown, saying local Communist party leaders had no control over Soviet troops.

ECONOMIC WATCH

Norway acts to restrain krone

est febes (96)

Norway's central bank yesterday cut its key overnight lending rate by 0.5 per cent to 6 per cent -the first cut since March in a bid to hold down the value of the Norwegian krone. High oil prices and the strength of the public finances, which are in beavy surplus thanks to North Sea petroleum revenues, have led to upward pressure on the krone. Mr Kjell Storvik; central bank governor, said significant purchases of foreign currency by the

bank recently had not restrained the currency sufficiently. The rate cut had been taken reluctantly as the bank was concerned about the danger of overheating in the economy. It said the cut made more important the need for a tough fiscal policy by the minority Labour government. It stressed the 1997 budget should not be altered to allow greater public spending as many Hugh Carnegy, Stockholm opposition groups demand.

■ Belgian unemployment fell to 13.8 per cent in October compared with 14.2 per cent in September. The Belgium-Luxembourg Economic Union posted a trade surplus of BFr18.5bn (\$593m) in August, up from BFr4.4bn a year earlier.

Denmark had a current account surplus of DKr2.0bn (\$345m) in August against a revised surplus of DKr/67m

NEWS: EUROPE

German business sunk in pessimism

By Frederick Stüdemann

The German government's hopes of brisk economic recovery were thrown into doubt yesterday when a survey of companies showed business remains down-beat about prospects for growth and employment

from the German chambers of industry and commerce on the Bonn government's ability to meet the criteria for European monetary

The DIHT surveyed 25,000 gle currency in 1999, commanies, the most compre- Mr Franz Schosser, the companies, the most comprehensive poll of its kind, and said it expected growth of only 1 per cent this year and 1.5-2 per cent in 1997.

This forecast is markedly

lower than those published last week by Germany's six leading economic institutes. They forecast GDP growth of The pessimistic forecast 1.5 per cent in 1996 and 2.5 per cent in 1997 and said that on current form, Ger-(DIHT) casts further doubt many would not meet the criteria for Emu.

It must satisfy this next year to be among the

DIHT's managing director.

declined to give an opinion on whether Germany would meet the Masstricht criteria. "I don't think one can say anything until the details of ment next year. the budget for 1997 are

Unemployment would conthough at a more moderate pace, Mr Schoseer said. The Germany "cannot be ruled

tic forecast was the poor for export growth. level of investment within The survey coin Germany. Only 19 per cent of companies polled in west Germany and 22 per cent of those in the east said they expected to increase invest-

German business remains sceptical about the strength of economic recovery, the tinue to rise next year DIHT said. With consumer spending still hesitant, domestic demand remained prospect of jobless growth in flat, leaving exports as the main carrier of growth.

On a geographical basis, The DUIT said the main central and eastern Europe eason for its more pessimis- offered the biggest potential The survey coincides with per cent).

gloomy figures released yesterday by the economics ministry showing a decline in manufacturing orders. In September, German manufacturing industry saw a 3.6 per cent drop in orders, following slim increases of 0.1 per cent in August and 0.9 per cent in July.

The ministry said orders the first time since 1991. from within Germany declined 3.2 per cent while those from abroad fell 4.1 per cent. The overall decline was slightly greater in western

The DIHT said the construction industry was facing another meagre year. The industry had lost its position as the motor of recovery in eastern Germany, where growth of 2-3 per cent is forecast this year and 1-8 per cent in 1997 below that in the west for

This is a particularly worrying signal for the Bonn government as economic recovery in east Germany remains top of the policy

Deal reached on privatisation of Postbank

By Peter Norman in Bonn

Deutsche Post, the German post office, and Postbank, the postal savings bank, have reached an agreement that should enable Postbank shares to be sold to private investors during the next six months, Mr Wolfgang Bötsch, German nost and telecommunications minister, announced yesterday.

But before the accord between the two fending state-owned companies can take effect, Chancellor Helmut Kohl's coalition government has to agree to give Deutsche

cent stake in Postbank to help pay for Postbank's use of post office counters. Yesterday's anno ment of the co-operation pact was meant to end six years of quarrel-Postbank. Instead, within minutes, Postbank said it had not been told of the plan to give Deutsche Post the rights to 25 per cent of its

The Free Democrat party, already at odds with other coalition parties over tax policy, announced it would stick by a pre-vious agreement to give Deutsche Post the right to acquire a 25 per Post an initial stake of 15 per cent

lence should Deutsche Post take a further 10 per cent.

Mr Rötsch now has the difficult task of securing FDP backing for the new plan. He said he would open negotiations with the party this week. According to Mr Bötsch, Deutsche Post said it would sign the agreement only if it was given the rights to the Postbank shares immediately.

Although the actual transfer is still planned for 1999, this proce-dure would allow Deutsche Post to include the Postbank holding in

of Postbank in 1999 and which its balance sheet. Deutsche Post DM750m in 2001. guaranteed Postbank's indepeninsisted that this was necessary to By that time, bridge a gap between the yearly value of DM1.48bn (\$973m) it placed on its counter services and the figure of about DM1bn the

Postbank was prepared to pay. Under the compromise agree-ment, Postbank will pay Deutsche Post DM1.1bn for use of its counters next year. The fee will drop 8 per cent a year in the following three years and by 13 per cent in 2001 to reflect expected productivity improvements at Deutsche Post, cutting Postbank's annual payment to Deutsche Post to about

By that time, both companies should be in private hands and quoted on German stock exchanges. The sale of Deutsche Post is set for 1999 after it has established it can be profitable. The transfer of a majority of Postbank shares to private ownership

should happen much sooner. Postbank has been in contact with the BHW housing finance group, the Volkfürsorge insurance company and BHF Bank of Frankfurt, with a view to harnessing their expertise and services in return for equity stakes.

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The EasyScroll mouse from KYE is seen with Plustek's PageReader, another Gold Award Winner with one of the smallest footprints in desk scanners.

US ELECTION 1996: the ecstasy and the agony







POLLS APART (from left): Children urge voters to turn out, while Bill Clinton kisses his daughter Chelsea after the final raily. His exhausted Republican challenger, Bob Dole, is cheered on by a supporter in a mask depicting Hillary Clinton

High cholesterol and the hot property from Little Rock

just a burger lover."

America's fat-free elites may scoff at Bill Clinton's famously unhealthy eating habits. But at Doe's Eat Place, his favourite greasy spoon back home in Little Rock, Arkanse his appetite is cause for celebration "He got a good appetite, a real good appetite," says Mrs Lucille Robinson, nodding her head with quiet

She ought to know: since 1976, Mrs Robinson has been cooking

something other than hillbillies. Yesterday she was back in the sweaty kitchen of Doe's, surrounded by giant sacks of raw french fries and huge tubes of hamburger meat, as a young man clad in bloody white apron used an oversized ice cream scoop to prepare hamburger patties

for the state's most famous son. The food was for what Mrs Robinson insisted would be the Clinton victory party. Flashing a front tooth framed in solid gold, Mrs Robinson scoffed at the notion there might be no victory to celebrate.

Mrs Robinson admitted she was

not quite sure whether Mr Clinton would attend; but she had sent the invitation to the White House herself. Doe's staff were expecting the

secret service to arrive at any moment, to stalk between red vinyl chairs upturned on red-checked tablecioths, and bring dogs to sniff the scuffed and scarred black-and-white linoleum of the oldest restaurant in Little Rock. As the screen door banged

and forth with supplies, Mr George Eldridge, Doe's owner, reminisced over the days when Governor Clinton ate at the diner almost daily. Mr Eldridge says he has only seen Mr Clinton six or seven times since he was elected in 1992, but his

eating habits have not changed.
"He usually has a few hot tamales and then maybe a steak," Mr Eldridge says. Mrs Robinson points out that this is the Clinton dinner menu – for lunch, it is *alway*s a cheesburger. "And he likes to browse in the french fry dish," Mr

Eldridge confides, adding that the First Lady, Mrs Hillary Clinton, also has a weakness for hot tamal

The walls are papered with pictures of a younger, slimmer Bill Clinton eating just such foods in the private, panelled back room at Doe's, reserved for his use. Mr Eldridge is not shy to admit that the president's patronage has made that room a hot property in Little Rock: it is often rented out by companies and rich Arkansans for entertaining. Meanwhile, it was almost time to turn on the neon Budweiser sign in

the window and open for lunch. A few hundred yards away, at the train station, Mr Clinton was just about to enter the polling station to vote for himself - and do what he could to ensure the correct result for Mrs Robinson's victory party. She would have hemburgers and hot tamales ready for him either way - and gumbo and chilli and steaks and fries. His appetite was her pride and joy. Not for her, a fat-free president.

Patti Waldmeir

Stephen Fidler talks to economy minister Roque Fernández

Argentina may sell final stake in country's largest oil company

The Argentine government may sell its 20 per cent stake Argentina continues to have in the country's largest oil and offer a deal to workers per cent rise in October's port that were part of a last year. and offer a deal to workers per cent rise in october a per tent budget-balancing austhat will allow the sale of retail price index, the high-recent budget-balancing australia last since terity nackage. Cheaper food hold, Mr Roque Fernández, the economy minister, said yesterday. Mr Fernández said the

government was studying the issue of a bond convertible into YPF shares at a premium to the prevailing market price. YPF has a current market value of more than

He said YPF workers were saving by instalments to pay for their shares and might be tempted by a government offer which would mean they would not have to complete their payments.

This was one of a number of international capital raising options the government had for next year, he said in an interview in London.

Others included a Mexican-style swap of new debt for Brady bonds issued in 1993 as part of the restructuring of its old bank debt. No decision on whether to go ahead had yet been taken.

one of the world's lowest inflation rates, despite a 0.5 December 1994. The rise brings 12-month retail inflation to 0.4 per cent, David Pilling reports from Buenos

\$8.7bn of public debt was due to mature next year, similar to this year's level. This included some \$5.7bn of bonds that would mature next year, \$2.7bn of which were held by residents. Flows to local pension funds would total \$2.5bn and to mutual funds and insurance companies \$1.5bn.

Mr Fernandez said the government would need \$14.1bn of financing next

Apart from maturing debt. a further \$3bn would cover the fiscal deficit and \$1.5bp the cost of social security and government reform. Some \$8.5bn would be raised

nearly 2 percentage points because of big increases in the cost of fuel and transand weak demand largely absorbed such pressures. Analysts said that, if the effects of the austerity pack-

Economists had expected October's index to rise by

Mr Fernández said some from the international market, \$3.2bn from domestic sources, \$1.1bn from privatisations and other capital revenue and \$1.3bn from multilateral organisations.

The 1997 fiscal deficit of 0.9 per cent of GDP compares with 2 per cent of GDP this year, he said. The International Monetary Fund last week granted a waiver to allow the earlier deficit target to be missed. The economy is continuing to emerge from a severe recession with growth officially forecast to rise from 3 per cent this year

age were excluded, prices

would have fallen 0.2 per

to 5 per cent next. Public debt maturities would remain at about

\$8.5bn in 1998 but rise to

a deflationary trend that evidence suggesting that began when Argentina slipped into a deep recession

Depressed prices and since 1994. Argentina's competitiveness in relation to countries with higher inflation, but may also have prolonged a recession from which the economy is only now slowly cent in October, continuing recovering,

> \$10.5bn in 1999 and \$10bn in 2000. By 2000, assuming a growth of nominal gross domestic product of an annual 7 per cent, the ratio of public debt to GDP would have fallen to 25 per cent from 31 per cent last year, and of public debt to exports, to 291 per cent from 435 per

> Mr Fernandez said Argentina's convertibility law, which fixes the peso to the dollar and only allows the central bank to issue money if backed by hard currency reserves, could last "for the next 10 to 20 years".

> "For this president and the pext at least I think it will work very nicely." he said.

He said there was strong flexible, which had allowed a real depreciation of the pes

experience of 1995 following Mexico's devaluation showed that the central bank could still act as a lender of last resort in the event of a financial crisis.

Measures to improve the functioning of the labour market and reduce the costs of hiring would further help, he said. Some of these measures had already been taken. The operation of the health insurance system had been modified to allow com-

petition. Planned legislation to move from a severance payment to an unemployment insurance regime could be passed by the end of the

Labour legislation was also before Congress to put collective bargaining on wages and working conditions at a corporate rather than an industry level. This could take longer to pass

Havana credit request raises doubts

Cuha has asked several provide export credits totaling \$500m to help offset damage inflicted by Hurricane Lili and to ease the burden of rising food and oil import costs.

The requests for bilateral credits on three- to five-year repayment terms followed a call by Havana for humanitarian aid after Hurricane Lili battered the country in October. The government said crops, housing and infrastructure were badly

damaged Cuba sought humanitarian aid through the United Nations. But Mr Roberto Robaina, the foreign minister, requested the credits in individual meetings with the ambassadors of Canada, Britain, France, Italy and Brazil. They were told they would be "one-off" credits largely intended to help Cuba cope with expected food shortages.

The governments approached are reacting cautiously. There is a widespread perception among foreign diplomats that the authorities may have over-stated the effects of Lili-Senior diplomats who inspected the worst-hit provinces said they did not see the scale of devastation, especially to housing and infrastructure, reported by the authorities.

Senior Cuban officials had described Hurricane Lili as a national tragedy that would badly set back Cuba's economic recovery hopes. But, apparently moving to dispel fears about future growth prospects, the government quickly announced this would not prevent the economy from surpassing a 5 per cent gross domestic product growth target for 1996.

Many diplomats believe Cuba's move was more directly motivated by a balance of payments squeeze resulting from lower world prices for the island's main exports, sugar and nickel, and a sharply rising import bill, especially for oil.

The EU and others are providing humanitarian aid, but Havana's bid for softer credits is seen as a more sensitive issue because of outstanding Cuban debts to official creditors and US pressure on foreign trade

The second of th

AMERICAN NEWS DIGEST

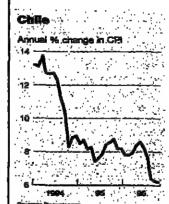
BP in plea for vindication

British Petroleum has asked the legal authorities in Colombia to investigate allegations that the company is collaborating with Colombian military intelligence to suppress dissent in oil-producing areas.

Mr John Browne, BP's chief executive, said yesterday the allegations were "groundless and without substance". He disclosed the company had written to Colombia's prosecutor general in Bogota last week, asking him to gation to prove them true or

BP, one of the largest foreign investors in Colombia, is subject like other oil companies to a "war tax" to help defray the cost of military operations. It has also had to provide lodging and other support to security forces protecting its facilities, as well as to workers on the pipeline linking oilfields with export outlets. But executives said there was no question of "collaborating" with the army. In the last three months there have been two attacks on BP operating sites. In one incident two policemen were killed. There have also been complaints from some local groups about the company's environ-mental. labour and welfare policies. Robert Corvine, Landon

Chile's inflation rate slows



Chile's inflation rate is continuing to slow, according to official figures released vesterday, which show a 6.2 per cent year-on-year increase in the consumer price index against 8.8 per cent in the same period last year. The Central Bank is now confident it will meet its inflation target of 6.5 per cent for 1996. However, it is awaiting the results of current public sector wage negotiations and the final size of the budget, due to be approved by Congress by the end of the month, in

order to decide when to relax its credit squeeze. Unemployment figures in the three months to September, also released yesterday, showed an unexpected fall from 7

Ex-officer on US spy charges A former Soviet intelligence officer is expected to appear in a Massachusetts court on charges of trying to obtain information on US missile defence.

Mr Vladimir Galkin, a Russian citizen who worked for the former KGB, was arrested last week on arrival at New York's John F. Kennedy airport, a court official said. The charge stems from Mr Galkin's alleged espionage activities from 1990 to 1991. AFX. Washington

Cuba renews jets campaign

Cuba yesterday renewed its campaign to gain permission for its commercial jets to fly over US territory. At present Cuban aircraft bringing Canadian tourists every winter are forced by US sanctions to detour over the Atlantic to Cuba, pushing up fuel bills. The Cuban government called for free commercial access to US skies in a resolution presented to the general assembly of the 21-member Latin American and Caribbean Civil Aviation Commission in

Peru drug baron arrested

The Peruvian government has announced that police: have captured the country's most wanted drug baron in neighbouring Ecuador, and have broken up his trafficking ring, which was supplying Colombia's Call cartel. In a joint operation by Peru's intelligence service and Ecuadorean police, Mr Willer Alvarado Linares - known as "Champa" - was arrested in a Quito hotel on Sunday after being tracked from Bogotá. Four other alleged traffickers were also arrested.

Multinationals 'rising to energy challenge'

By Nancy Dunne in Washington

Privatisation and pent-up need for investment have created scores of new multinationals in the global energy market, luring them to invest billions of dollars in new projects, according to a report from the US energy department released yester-

With more than \$1,000bn needed in new investment over the next 10 years, the companies have risen to the challenge through acquisitions, mergers, consolidations and strategic alliances, the report says.

"Oil and gas companies have become electricity companies; domestic regional electric utilities have become multinational electricity companies; electricity distribution companies have become generation companies; and generation companies have become distribu-

The most pronounced

impact of privatisation so far may be the increased level of state-run petroleum companies by foreign investors particularly those from the

As the role of the World Bank and other development agencies has diminished "significantly", new private funding sources for international investment are rapidly emerging. These include the expected - oil producers and natural gas pipeline companies - but also the unexpected, such as construction companies and power equipment manufac-

turing companies. Privatisation has also resulted in a convergence of petroleum-related activities and electric power-related activities, the report notes. The trend stems partly from the growing use of natural gas in some regions, for its environmental advantages over coal or oil, driven by tion and transmission the improved efficiency of companies," the report gas-fired electricity genera-

tion units. Growth in demand is greatest in Asia, where developing countries which cent of total world electricity consumption in 1992 are expected to account for a third of total demand growth between now and 2010.

In Latin America, heightened environmental concerns are strengthening demand for natural gas, particularly in Brazil and Chile. Natural gas pipeline projects, costing nearly \$7bn, are either under construction or active consideration. The structure of the world's coal industry, which

accounts for a quarter of global energy consumption. has also undergone considerable change. Encouraged by the removal of coal subsidies. European companies particularly multinational conglomerates - have increased their presence abroad in recent years. Privatisation and the Globalisation of Energy Markets. Energy Information Adminis-

tration, Room 1F-048, Forres-

20585. Tel 202 586 8800.

tal Building, Washington, DC

US blacks hit by hate crimes

Blacks remain the principal target of the continuing high level of hate crimes committed in the US, according to a report published by the Federal Bureau of Investigation yesterday.

The FBI said race was the motivation in more than 60 per cent of all such crimes reported by the nation's police forces in 1995. Citing preliminary data, the bureau said 7,947 hate crimes were committed last year, of which 4,831 were racially motivated.

Hate crimes are defined by the FBI as those that show evidence of prejudice based on race, religion, ethnicity or sexual orientation. The total figure repre-

sented a 35 per cent increase on crimes reported in 1994. But officials stressed the numbers could not be reliably compared with the previous year since the number of forces reporting had risen substantially.

For 1995, 9,500 police agen-

cies in 45 states and the Dis trict of Columbia, covering 75 per cent of the US population, reported statistics, compared with 7,200 from forces covering 50 per cent of the population in 1994.

Of the racially motivated crimes, whites were the victims in 25 per cent of cases. Religious bias was the second most frequent basis of prejudice in hate crimes. with Jews by far the most common target. Of the 1,277 incidents Jews were victims in 1.058 cases. Sexual orientation was the

motivation for 1,010 crimes, or 12.8 per cent of the total. Attacks on male homosexuals accounted for 735 cases. or 72.1 per cent. Ethnicity and national origin was the fourth major category of hate crimes.

The most frequently reported offence was intimidation, responsible for 41 per cent of all cases. Destruction and vandalism of property accounted for 23 per cent of the offences, assault for 18 per cent and aggravated and investment links with assault for 13 per cent.

NEWS: WORLD TRADE

UK, US restart open skies talks

By Michael Skapinker, Aerospace Correspondent

Government negotiators from the UK and the US meet in Washington today in an attempt to restart aviation talks which collapsed

acrimoniously in August. The talks, which the UK says are at the Americans' initiative, are simed at reaching a new "open skies" agreement between the two countries. The US has made the conclusion of such an agreement a precondition for approval of the proposed alliance between British Airways and American Airlines.

out for Washington, they received a message from their US counterparts telling them not to bother coming. The cause of the breakdown was a memorandum from the British government making it clear that the UK was not prepared to sign the sort of accord the US had concluded with Germany and

other European countries. In particular, the UK objected to giving US airlines "beyond rights", allowing them to carry passengers from Britain to third countries. The UK argued that "beyond rights" should be The last time UK negotia-

granted only if UK airlines

were granted cabotage, the would not be productive". right to carry passengers within the US. Virgin Atlantic, the independent UK carrier, has said that it wants to set up a domestic US service.

The US insisted its airlines had to be given "beyond rights" and rejected the UK's demand for cabotage. The US also rejected a UK proposal that a tribunal be set up to protect smaller carriers against predatory pricing and anti-competitive behaviour by large airlines.

The US said in August the UK's proposals "fell so far short of providing the essential elements of an open skies agreement that talks any special favours, Euro-

Opinion on whether today's talks stand a better chance of success are mixed. A US official said his government's intention was to see whether the UK's position had shifted. "These discussions are intended to see

whether there's a mutual

understanding on how to move forward." . He said, however, that the US was not prepared to back down from its insistence that the UK had to sign a similar agreement to that concluded with other European countries. The US has said that if the UK receives

enjoys reduced duty on foot-

wear exports.

pean countries which have already signed deals would demand that their accords be renegotiated. This suggests that any

compromise will have to come from the UK. BA is anxious to conclude its alliance with American, USAir. BA's existing US partner, has said it will end its codesharing and frequent flyer programme with the UK car-

rier in March. The UK Office of Fair Trading has submitted a report on the BA-American alliance to Mr Ian Lang, trade and industry secretary, who is expected to make an

China to **hold 46%** of jet project

By Tony Walker in Beijing

Aviation Industries of China (Avic) will hold 46 per cent of a project to build a 100seater regional jet, with its European and Singaporean

partners taking the rest. Mr Zhu Yuli, president of Avic, yesterday said Aero International Asia, which includes British Aerospace and Aérospatiale of France. would hold 39 per cent, and Singapore Technologies 15 per cent.

This is the first time a Chinese official bas mentioned specific shareholdings. The partners signed a memorandum of understanding in July, but final agreement is still pending.

The official Xinhua news agency quoted Mr Zhu as saying the AE-100 aircraft would come on the market in 2002. Aérospatiale said the project aimed to produce at least 1,000 aircraft for

The European consortium beat Boeing for the right to partner Avic in the project. A Korean consortium beaded by Samsung dropped out earlier this year.

The involvement of BAe and Aérospatiale, both Airbus Industrie members, means that the other two members of the European consortium, Daimler-Benz Aerospace (Dasa) of Ger-many and Casa of Spain, would be drawn into the project. BAe and Aérospatiale are already pariners with Alenia of Italy in the Aero International Asia con-

Beijing wants Airbus involvement so that the 100seat jet is compatible with other elements of the Airous fleet. "We want the AE-100 to share certain features with Airbus planes so as to benefit end-users," said the Chinese official.

China earlier this year ordered \$1.5bn worth of Airbus aircraft, including 30 150-seat A-320s. The deal broke Boeing's stranglehold Jeremy Grant on the China market.

WORLD TRADE NEWS DIGEST

Bangkok signs subway deal

The Thai government yesterday signed a \$944m contract to build the initial phase of Bangkok's first subway

The consortium members, Germany's Bilfinger and Berger, Thailand's Ch Karnchang, and Tokyu Construction and Kumagai Gumi of Japan, said work would be shared equitably, but that revenue and work-sharing details had not been finalised.

Construction of stations for the project is to start early next year. A tender, worth over Bt20bn (\$784m), for the second 11km northern phase of the line, is now open. with the same consortium widely expected to win the contract. A tender contract for a further Btllbn concession for fittings and track for the entire length of the project is expected to be awarded within two

Italians to build Gulf mosque

A consortium of Italian companies has been awarded a L625bn (\$413m) contract by Sheikh Zaid bin Sultan, Abu Dhabi's ruler, to build the largest mosque in the Gulf. The contract, won by by Impreglio (grouping

Pita-Girola-Lodigiani) and the Udine-based Rizzani de Eccher, involves building a mosque with four minarets each 110m high and 138 cupolas. The total mosque area of 84,000 sq m will accommodate 7,000 worshippers in the main prayer area and a further 20,000 in air-conditioned, covered courtyards.

This is the second mosque to be built by this consortium, the first being in Nigeria. The contract was won against bids by Bouygues, Dragados, Dumez, ETI and Robert Graham, Rome

Jet engine orders announced

International Aero Engines, in which Rolls-Royce of the UK is a major shareholder, has announced V2500 engine orders from China and Singapore worth up to \$430m. Rolls-Royce's share of the new deals is around \$150m. Singapore Aircraft Leasing Enterprise ordered engines for Airbus A320s with deliveries in January 1998. China Southern announced it would buy seven more Airbus

Industrie A320 aircraft following its purchase earlier this year of 10 of the V2500-powered twin-engined aircraft. The consortium, based in Hartford, Connecticut, comprises Rolls-Royce, Pratt & Whitney of the US, MTU of

Germany and Japanese Aero Engines.

Bid to end Japan wood tariffs

Foreign Staff

US and Japanese forestry industry executives yesterday began two days of meetings on the deregulation of Japan's wood market.

The American Forest & Paper Association in September predicted a 20 per cent annual increase in US exports to Japan after Tokyo announced deregulatory moves. These included eliminating requirements to re-test lumber imports, permitting three-storey wood frame construction.

and eliminating high tariffs on laminated timber. The executives are hoping for an agreement to eliminate tariffs on Japanese wood and paper. "Although Japanese tariffs on paper are relatively low, the Japanese paper market remains essentially closed to US and other foreign suppliers," said Mr W. Henson Moore, head of the Nancy Dunne, Washington association.

Vietnam makes strides into

here is barely room to move at Hunsan Co's shoe factory in a sub-urb of Ho Chi Minh City, let alone be heard above the whire and clatter of machinery. Every inch of space is occupied by piles of half-finished sports shoes and boxes as the company races to complete a \$1.2m order for 80,000 sports shoes from Miber, an Italian customer.

"If someone comes to us with a design, we can turn it around in three days," says Mr Pham Ngoc Lam, the company's US-trained finance and investment manager. Hunsan, like many Vietnamese shoe makers, has seen business boom since it was founded four years ago, much of it thanks to export orders to the Euro-

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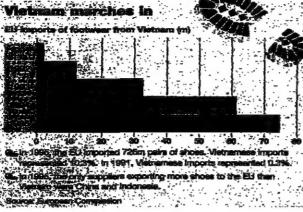
15 mm

Constant rate of

In 1994 it sold \$1m of shoes abroad. That figure has risen to \$5m in the first eight. months of this year, 80 per cent of which was to EU member states. Long used to selling

through South Korean intermediaries with the right contacts, Hunsan plans to sell directly through European distributors as a way of exporting more.

These plans may be good news for the Vietnamese authorities as they try to encourage the development of the country's weak export capacity: shoes have become the country's sixth largest



But they strike fear into the boardrooms of European footwear manufacturers. EU data. They already face tough competition from competitively priced Chinese and Indonesian products. Viet-

pairs in 1994 from 628,000 pairs in 1989 And Vietnam's emergence as the third largest footwear exporter to the EU after those two countries is confirmation that the competitive threat from Asia remains

undiminished. In 1990, Vietnam exported 750,000 pairs of shoes mainly synthetic sports shows, leather shoes and

pairs exported, earning the

namese shoe exports to the EU have emerged as the latest threat, jumping to 61.5m investment in 1990.

> boost in production capacity partner.

The steep rise is partly due

ese have also been quick to exploit the low tariff regime that applies to Vietnamese

Last year saw nearly 80m country \$250m, according to

to the arrival of foreign investors, mostly South Korean. Taiwanese and Hong Kong-based companies. Hanoi opened up its manufacturing sector to foreign The result has been a

at previously moribund Vietnamese concerns. Assembly work is effectively sub-contracted to the Vietnamese Foreigners and Vietnam-

tion in Hanol. Mr Thai Van Hung, Hunshoe exports to the EU. EU might eventually impose "tissue tops" - worldwide. Under the Generalised Sys- tariffs and quotas on Viet-

estimates his company has a three-year window to install new capacity to take further advantage of the EU market.

Pressure is therefore likely to mount on the EU from European manufacturing federations to find ways of stemming the flow of Vietnamese shoe exports. EU officials say they are acutely aware of the con-

cerns but need to find out more about the structure of finished products. Vietnamese shoe production before taking a position. Chief among their con-cerns is the origin of the raw materials used by Vietnamese manufacturers. There

Chinese products - subject to high EU tariffs - are slipping across the border into Vietnam and being exported under Vietnamese labels. However, officials seem to be clear about one thing: Vietnam's capacity to supply local manufacturers with raw and processed leather is

are suspicions that some

for sales, including tanning equipment, to Vietnam. If we can expand our raw material exports to Vietnam it's already less painful than importing finished products," says Mr Riccardo Ravenna, head of the European Commission's delega-

poor, creating opportunities

san's president and founder, dismisses concerns that the However the industry's

scope for growth is limited by its reliance on raw material imports. Rusinessmen say this imposes a strain on the ability of companies to put competitive prices on

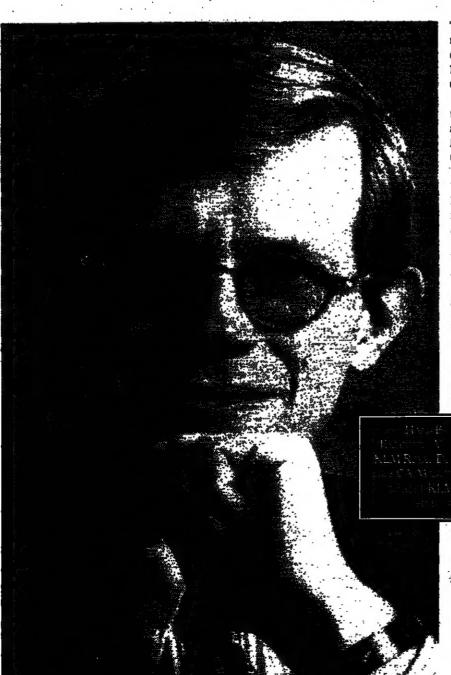
"Some of the factories are having problems. They're taking whatever price they're being offered because they need the business." says Mr Lam

e adds that seasonal fluctuations in demand make reliance on exports a liability and that Hunsan, though keen to increase exports, aims for an even split between the local and foreign market to reduce risk. Mr Phan Dinh Do, general director of the Vietnam

Leather and Footwear Cor-

poration, admits there are other problems. He says: "1996-2000 could be regarded as a banner period for Vietnam's footwear industry. But we rely too heavily on foreign companies for spare parts, equipment and materials. We need to step up production and distribution of our own products. We are also bad at marketing."

5011Wale Fly



The airline business is one of the most competitive on earth. So to ensure their continued success. KLM Royal Dutch Airlines brought Computer Associates onboard. With CA, KLM can take advan-

tage of the world's most advanced client/server financial software: CA-Masterpiece*/2000.



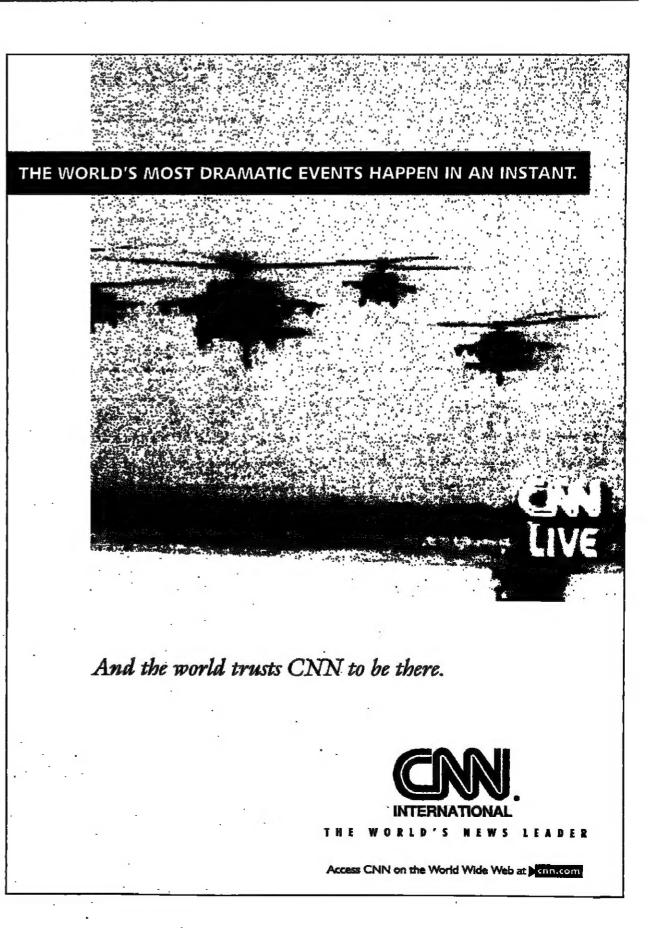
As Executive Vice President and Corporate Controller, Hans Bruggink says, "KLM is an international business with offices all over the globe. So we needed financial software that was multilanguage and multi-currency. In both cases, Masterpiece fit the bill."

What's more, Bruggink appreciates the fact that Masterpiece operares in "real-time," giving his staff immediate access to the information they need right from their PCs.

Perhaps best of all, Bruggink says, CA and KLM worked together to customise Masterpiece to precisely lit their needs: "CA made sure they had all the input they

needed to tailor Masterpiece to our specific requirements. And they continue to refine the software to keep up with the

new demands of our business." Sounds like a good partnership. "Flying sky high," says Bruggink. Spoken like a true airline executive.



Bhutto swamped by a wave of allegations

Dakistan's prime minis-ter Ms Benazir Bhutto Farhan Bokhari details the political and economic upheaval that toppled Pakistan's premier dismissed on charges of corruption in a repeat of her fate six years ago.

The man who gave her and her government their marching orders on Monday night. President Farooq Leghari, was around the last time she was fired - but then he was her close ally. Indeed, many Pakistanis remember Mr Leghari in a protest march two years later being beaten by police because of his loyalty to Ms Bhutto, by then back in

But it seems the repeated allegations of corruption and mismanagement against Ms Bhutto's new government. elected in October 1993, were too much for President Leghari. With the necessary nod from the military, he ended her second attempt to bring about the "social revolution" she promised her people.

They appeared not to take it to beart. There was a heavy troop presence in the country's large cities, including the capital Islamabad, but there were few signs yesterday of public concern at the fall of her government. such as Karachi's poorest Urdu-speaking neighbourhoods, which have faced the brunt of a recent security clampdown, there were small celebrations in which

Traffic was initially thin

people gave each other gifts

The rise and fall, and rise and fall of Benazir Bhutto

1988 Movember: Berezir Bhutto becomes prime minister in first free elections after 11 years of military rule: 1990 August: President Ghulem Ishaq Khan sacks governm

on charges of corruption and political incomp en: Nerwaz Sharif wins election but is sacked in April 1993 by President Khan on charges of corruption and

1993 October: Bhutto forms government after PPP emerges as biggest single party in general election.

@: 1994: Sectarian warfare in Karachi, Pakistan's commercial hub, brings civil administration to a halt. In 1995, 2,000 people are killed. Business confidence ainles.

• 1996 Junes IMF suspends disbursements from \$500m standby loan, infitated at government's lackbustre budget and reluctance demanding Shutto's resignation, Islamabad, the capital, brought

Bhutto relinquishes finance partiolio. IMF restores standby loan. imber: Government dismissed by President Faroog Leghan on charges of contuption and misma

as fearful motorists stayed off the roads to judge public reaction, but life returned to normal by the afternoon. The only deviation from normal life was the late delivery of newspapers, which had to delay their editions for up to four hours to carry the full text of the presidential order dismissing the government.

The stock market in Kara-chi was closed yesterday for a local holiday, but share prices jumped on the "kerb" or informal market, and are expected to rise today on the official exchange. Businesses are generally hoping that the investment climate will in the morning, apparently improve now that the long

For many Pakistanis, Ms

Bhutto's downfall was unimaginable just months ago when President Leghari was still seen to be on her side (Pakistan's president is elected by members of both houses of the federal parliament and Pakistan's four provincial legislatures). The army said repeatedly that it was in no mood to intervene to halt the growing civil disorder and political misman-

Yet Ms Bhutto did nothing

to deflect the pressures

which mounted on the presi-

agement. The opposition, meanwhile, was divided.

period of uncertainty has dent to sack her. Her government almost always dismissed corruption allegations baseless

> The charges against Ms Bhutto's government have not been set out in detail yet, but are generally assumed to refer to allegations that Ms Bhutto's husband, Mr Asif Ali Zardari, whom she appointed investments minister, took bribes or kickbacks on the award of government contracts.

the government of ignoring the plight of hundreds of Pakistanis who were alleg-edly killed by security forces

in Karachi as part of a clampdown last year. Pakistan's economic crisis

also played a part in the tim-ing of Ms Bhutto's removal. Having failed to meet the conditions of two failed International Monetary Fund programmes since she came to office in 1998, she was forced to negotiate a third one last month after the country's foreign exchange reserves slipped to

banks. These total some \$8bn of which around \$2bn is footloose money, Pakistan thus faces a con-

ment relies heavily on for-

eign currency deposits in

tinuous need to refinance killing gained wider maturing borrowings, a pro- approval later, when cess that became very difficult after revenue projections following the government's budget in June showed Pakistan would fail to meet IMF targets. The IMF suspended drawings on a \$600m credit as a result.

Bankers believe that whoever eventually emerges in power in Pakistan will have to stick to this programme or face a serious foreign debt crisis. But the IMF programme is politically controversial because among its Rs40bn (\$1bn) in budget measures is a plan to tax agriculture for the first time. Public protests also followed the steep increase in petrol prices that followed the 8 per cent devaluation with which the IMF programme was

launched last month. Meanwhile, Ms Bhutto's downfall has come at a difficult moment for her in the province of Sindh, her vital home base and the bastion of support for the Bhutto family. The killing in September of her estranged brother, Murtaza, by the police in Karachi was followed by Chants of "Zardari, you

the ancestral home of Ms Bhutto in the city of Larkana illustrated how serious matters had become. The belief among the ruling par-ty's dissidents that Mr Zardari may have ordered the Ghinwa, Murtaza's widow formally made that allegation before a Karachi judge.

It is by no means certain Ms Bhutto will be permitted to return to politics. The possibility of criminal charges against her husband and investigations into her own financial dealings were yes-terday not being ruled out by members of Pakistan's new interim administration.

The opposition Pakistan Muslim League (PML) wel-comed Ms Bhutto's downfall and says it is confident of winning the next elections. However, its leader, Mr Nawaz Sharif, was also tainted with charges of corruption before his government fell in 1993.

A statement from Mr Mairaj Khalid, the new prime minister, that free and fair elections could not be held unless the election commission was "powerful and independent", was widely seen as the first important suggestion that politicians may face extensive probes into their financial affairs ahead of the next elections.

Rights meeting imperils Apec harmony

By James Kynge

groups, defying government pressure, announced yesterday that they will go ahead with a controversial conference on East Timor which officials say could strain ties with Indonesia.

The conference, which may attract more than 200 representatives mainly from regional non-governmental organisations, has placed Malaysia in a delicate diplomatic predicament.
Although it is unofficial, Malaysian officials are wor ried that the meeting may offend its large neighbour to the south.

The meeting from November 9 to 11 is expected to highlight alleged human rights abuses in East Timor ust a week before the Asia Pacific Economic Cooperation (Apec) forum is to be held in the Philippines.

Apec, a grouping of Asian and Pacific rim countries including the US, had its 1994 meeting in Indonesia overshadowed by East Timorese demonstrations, and activists have said that they plan more protests at this year's Apec meeting.

This year the question of East Timor, a former Portuguese colony annexed by Indonesia in 1976, is particularly sensitive after Mr Jose Ramos-Horta, a campaigner for East Timorese independence, won the Nobel Peace Prize along with a fellow activist last month.

Mr Ramos-Horta, who is reviled by Indonesian authorities, was invited to attend the Malaysian conference but he said in a statement yesterday that he had decided to stay away to "avoid putting Malaysia in a difficult position with the

Indonesian government".

He added that he admired Dr Mahathir Mohamad, Malaysia's prime minister, whom he hoped could play a positive role in resolving conflicts in East Timor.

Malaysia regards the question of East Timor, which the United Nations continues to recognise as a territory administered by Lisbon, Indonesia's internal affair.

Nevertheless, the non-governmental organisations preparing to stage the conference, which is called the Second Asia Pacific Conferappealed to Kuala Lumpur to become involved in finding a peaceful solution to the conflict in the territory.

"Malaysia has strived for peaceful resolutions of the long-running conflicts in Palestine, South Africa, Cambodia. Bosnia and (the Philippine island of Mindanao. We should take a similar stand to support a speedy and peaceful solution to the East Timor situation," Mr Sanusi Osman, a representative for the conference organisers said.

But far from getting involved, Malaysia appears keen to divorce itself from the problem as emphatically as possible. Mr Megat Junid, deputy home minister, said the cabinet was concerned that the conference - if it goes ahead - would damp a scheduled visit to Indonesia by Dr Mahathir.

Some representatives of the human rights groups said they were worried that Malaysia might now try to ban the conference. They added that they were keeping secret the names of people who planned to attend from abroad, in case the authorities attempted to bar them from entering the

The president also accused

just \$750m, equivalent to only four weeks of imports. The country's dire shortage of foreign exchange reflects its heavy short-term indebtedness. Foreign debt is officially put at \$28bn, but

> defence have also mounted with a 1990 US decision to cut all military and economic aid to Pakistan over allegations that the country was producing nuclear weapons. Pakistan received roughly \$75n in US aid from 1960

Pakistan's economic woes alone are sufficient to force the generals to avoid contemplating a direct takeover of the country, as this would frighten away foreign investors. "Pakistan could find itself as isolated as Burma if that was ever to happen," said a western diplomat. "The army is an important institution but it's one which recognises its limitations." Yesterday, it brushed aside any perceived limitations. "The army

is very visible in this change. It suggests that they are fully behind the president," Ms Asma Jehanghir, a leading human rights lawyer, said.

In recent years, the army has been keen to seek a larger role in UN peacekeeping operations worldwide in a gesture to raise the country's global profile while also allowing Pakistani troops to work with troops from other countries.

It has also been rewarded recently for staying on the sidelines. The 1990 sanctions on Pakistan imposed by the US were eased for the first time this year when Washington agreed to allow the delivery of some of the \$1.4bn worth of blocked equipment.

The army exercises the power, but shuns the reins

with specific measures such

as export controls or licen-

sing procedures to stop such

transactions. The US, she

said, was looking for a "com-

prehensive and rigorous sys-

Ms Davis also said the May agreement had laid an

"important foundation" for

the eventual implementation

of a 1985 Sino-US peaceful

tem so these commitments

can be carried out".

By Farhan Bokhari

Pakistan's army remained silent yesterday, but the presence of troops outside the prime minister's residence spoke volumes.

The soldiers did what they have become so accustomed to over a difficult decade of transition to democracy. Tired and frustrated with Ms Benazir Bhutto's incompetence, the generals encouraged President Farooq Leghari to dismiss his long-time friend.

The army is indisputably the force behind President Leghari. allowing him to be assertive in front of Ms Bhutto. It is also the real power in Pakistani politics. It has watched with irritation and some distaste the efforts of radio and television stations, air-

The US has been

"encouraged" by China's

apparent willingness to exer-

cise stricter control over pos-

sible export of nuclear tech-

nology to facilities not

covered by international

Ms Lynn Davis. US under-

safeguards agreements.

civilian politicians to govern. General Jahanghir Karamath, a respected career-soldier who became chief of the army staff in 1995, has privately expressed his displeasure to president and prime minister. The excesses of the civilian rulers made him at one with the president. That

made yesterday's move easy. Senior officials predictably sought to play down the mili-tary's role yesterday. Though the president enjoys a constitutional prerogative to dismiss a government, there was a sense of a "military coup" in Islamabad. Besides Ms Bhutto's residence, soldiers kept close vigil at other important installations such as

two days of talks in Beiling

she hoped the Chinese would

live up to commitments to

to "unsafeguarded" facilities.

steps the Chinese are tak-

ing," she told reporters.
This week's discussions

were a follow-up to a May

commitment from Betting to

"I am encouraged by the

ports and government offices. Dissatisfaction has run deep among both the generals and the ruled. In recent weeks massed demonstrations, from the business classes to mullahs, took to the streets to demand Ms Bhutto's removal. Before dawn yesterday the soldiers moved in. This move, although constitutional, could not have occurred without the tacit approval of the army," said Ms Nasim Zehra, a

leading security analyst. Officials say the soldiers will be withdrawn within days, once the new government settles in. Army officers were careful yesterday to avoid gestures suggesting a more enduring and open assumption of the levers of government.

tan for more than half its exis-tence as an independent state, most recently for the 11 years to August 1988 under the leadership of General Zia ul-Haq. His death in an air crash paved the way for the transition to democracy.

The army has governed Pakis-

The soldiers are a pampered class. Defence spending amounts to 26 per cent of this year's budget. That largesse continues in spite of suggestions by foreign donors that Pakistan should reduce its "non-developmental" expenditure, a euphemism for defence spending. Pakistan has resisted defence cuts, arguing its national security was under threat from its arch rival, India. The economic pressures on

'encouraged' by China nuclear arms sales stance nuclear co-operation accord which would allow US companies to sell China nuclear power generation equip-

> Congress has delayed acceptance because of continuing concerns about China's assistance to countries such as Pakistan which are accused of trying to develop nuclear weapons.

Ms Davis also urged China

to join a group of 33 nations in halting sales of conventional weapons to Iran. "We are particularly interested in preventing proliferation of weapons to Iran and other rogue states." Ms Davis

The US sought to reassure China that its arms sales to Taiwan were consistent with its "one-China policy". Beijing opposes such sales.

were simed at paving the way for a visit to Beijing later this month by Mr Warren Christopher, the secretary of state, are part of efforts to establish a regular dialogue with China on security issues. Ms Davis said that regularising the global security dialogue was an "important step in bileteral

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ASIA-PACIFIC NEWS DIGEST

US had accused China of

selling ring magnets to Pakistan for the nuclear

industry. Beljing denied the

accusations at the time.

Ms Davis said she accepted

that China's leadership had

no knowledge of the sale, which the US believed was

made by a state-owned com-

pany. Washington is

demanding Beijing come up

Slower growth hits Singapore

Singapore's economy grew by 3.2 per cent year-on-year in the third quarter of 1996, the city state's worst growth rate in a decade. Following the announcement the government revised down its 1996 growth forecast to about 6 per cent, the second time this year it has trimmer

Mr Lee Hsien Loong, deputy premier, ruled out drastic policy adjustments to cope with the downturn. "This slowdown is merely cyclical and not caused by a loss of competitiveness." he said, although indicating the government was studying the problem of industrial land being sold at inflated prices to multinational companies. Mr Lee cautioned that slower growth was expected for a

"few quarters" until external demand picked up. The third-quarter downturn was blamed on a week manufacturing sector. Singapore has been hit by a global slowdown of the electronics industry triggered by softening demand, excess capacity and an oversupply of components.

AFP, Singapore

Sri Lankan regulators quit The five directors of Sri Lanka's main foreign and local

investment regulatory authority resigned yesterday. following a directive from President Chandrika Kumaratunga, officials said. Mrs Kumaratunga plans to reconstitute the Board of Investment (BOI). The government gave no reason for the action but it is

believed there have been differences of opinion between two senior cabinet ministers and several BOI members. including its chairman, Mr Thilan Wijesinghe. Officials, however, said Mr Wijesinghe, a close aide of Mrs Kumaratunga, was likely to be re-appointed to the BOI

Support for Indian coalition

India's nine-party coalition government of Prime Minister H.D. Deve Cowda has been boosted by the decision of its key backer, the Congress (I) party, not to withdraw support. However, the party issued a warning that the United Front should not take its support for granted.

Congress, the coalition's biggest backer although not a member of the UF government, also listed several areas, including fiscal and foreign policy where it said the government was inadequate. Congress was angered by the UF's refusal to back

the party in the politically sensitive state of Uttar

Strike halts shipments of Thai air cargo

By Ted Bardscke in Bangkok

A strike by more than 1,000 air cargo handlers has blocked shipments of nearly three-quarters of outbound cargo from Bangkok's Don Muang airport and forced into the open a controversial government decision to privarise the cargo services of state-owned Thai Airways International.

The workers, employees of the Cargo and Mail Department of Thai Airways, went on strike on Monday. Most outbound cargo of Thai Airways and other regional carriers which rely on Thai Airways ground staff including Cathay Pacific Airways, Singapore Airlines, China Airlines, Korean Airlines and Malaysian Airlines remained locked in storage areas. Thai Airways was not accepting inbound cargo at

airports around the world. The strike comes at a delicate time for Thai exporters, who are rushing to fill large Christmas orders of textiles and electronics at a time when the country's export growth rate has fallen to the lowest level in a decade.

Workers are protesting against a cabinet decision to give Thai Airways' cargo business to a new company in which Thai Airways would be the largest single shareholder but be deprived majority control. The workers fear they will lose benefits and eventually be made redundant.

The airline said its cargo department would carry on normal operations after the

new cargo company was established and that employees would keep their jobs with the airline. But a company spokesperson could not say what the workers' jobs would be if the new company takes over the operations of the cargo department, as expected.

The decision to separate Thai Airways' cargo service from its passenger operations, originally made by the former government of Chuan Leekpai in 1994, had been hailed by exporters as a way to streamline operations Don Muang airport. Labour peace was expected as Thai Airways was to hold a controlling 49 per cent stake in the new company and private sector partners were to be selected through

But without calling bids, the lame-duck government of Mr Banharn Silpa-archa decided to lower Thai Airways' stake to 35 per cent, with an additional 5 per cent for Thai Airways employees. A controlling stake was awarded to a group led by a private company, Commercial Transport International (26 per cent) and Thai Mili-

an open tender process

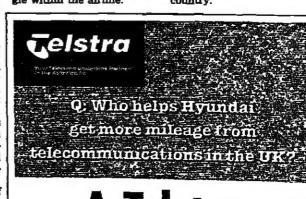
tary Bank (24 per cent). A main shareholder of Commercial Transport International, Mr Anusak Indarapuvasak, is also director general of the state-owned shipping company. Thai Maritime Navigation, an organisation which has a reonopoly on military transport under the supervision of the ministry of communications and transport.

That ministry is controlled

by the New Aspiration party, led by Gen Chavalit Yongch-aiyudh, defence minister, who has been an avid supporter of commercial projects for the Thai armed

The Thai military's influence over Thai Airways, which it used to control, has been waning in recent years although it is still considered an obstacle to the professional management which now runs the airline. Analysis said awarding

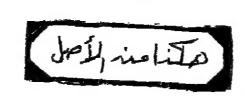
Thai Airways' cargo operations, which accounts for 17 per cent of the company's revenue, to a group with ties to the military was part of the continuing struggle within the airline.



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credit rating A mptiness at the heart of President Mobutu Sese Seko's valuelorious 30-year regime it was

By Kevin Done in London and Sander Thoenes

Kazakhstan, the central Asian republic rich in oil and gas resources, was given BB- speculative grade credit ratings by two of the leading US and European rating agencies yesterday.

In receiving its first rating. the country, which is prepar-ing to make its first Eurobond issue, was put on the same level as Russia by Standard & Poor's of the US by IBCA, the European agency. Russia was rated BB+ by IBCA last month, Ba2 (the equivalent of BB) by Moody's of the US, and BB- by S&P. Credit ratings reflect perceived risk of default by a borrower.

Moody's, the other leading US rating agency, is also understood to have ass Kazakhstan recently, but it failed to release any rating

Ratings of BBB-/Baa3 and higher, which have been awarded previously to Slovenia, the Czech Republic, Poland, Slovakia and Hungary among the former comgrade, while ratings of BB+/ Bal and lower, so far awarded to Romania, Lithuania and Russia are specula-

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A strong rating, implying

The Kazakhstan ratings disappointed some western economists and business

executives in Almaty. The World Bank, the European Bank for Reconstruction and Development and Japan, backed the country's reforms last week by pledging nearly \$1.35bn for balance of payments, technical and investment support in

IBCA said Kazakhstan's potential as an oil and gas producer, with reserves rivalling those of Kuwait, was enormous, but being landlocked made it dependent on its neighbours for access to western markets. The planned pipeline through Russia to the Black See would raise oil exports by over 50 per cent within two years.

Russia was "likely to continue to exercise enormous influence" over the Kazakh economy and had recently cut off the electricity in northern and eastern Kazakhstan, said IBCA.

Kazakhstan, independent since December 1991, had slipped into arrears twice in servicing foreign debt in the munist countries of east past three years, and lack of Europe, are investment- a track record as an indepenstraint" on its credit rating. S&P said "a sharp tighten-

ing" of fiscal and monetary policies had allowed Kazakhstan to stabilise its economy this year with a steep fall in usually means lower funding the rate of inflation

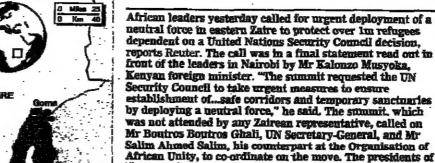
Kazakhstan Goma looters reveal facade behind regime gets its first Michela Wrong visits the east Zaire town now in the hands of rebels

The presidential villa on the outskirts of the eastern Zairean town of Goma, in the hands of rebel forces and Rwandan soldiers who routed the army at the weekend, had been pillaged.

But the looters found little of any real value, because almost everything in the apparently sumptuous estate, perched on the banks of Lake Kivu, was fake. Ornate chandeliers, gilt

mirrors and a brass wall clock decked with eagles and lions lay pilled in the corridor, ready for loading. A suspiciously new Oriental rug had been rolled up and a. portrait of "the Guide" himself, moulded from Zairean copper, was propped against But no one had bothered

to move the huge dining table, moulded from marbleimitation plastic, the four 'Ming" vases, with their price labels still stuck to them, or the Romanesque plinths inlaid with artificial



Also largely untouched was the garage, holding five black Mercedes, two ambu-

sumably for president.

Tutsis in Rwanda in the same "Great Lakes" region. ordered Zaireans to adopt in

surfaced in south Kivu, that an alliance of four political parties was now in control. The fighters manning

checkpoints on all roads into town, far more disciplined than the Zairean troops they replaced, are a motley crew from both north and south Kivu and as far away as the southern province of Shaba. enous Zaireans, all apparently committed to Mr Mob-

claims by Rwanda that it is not involved, there was denying yesterday the backing behind the revolt, apparently aimed at ousting the Hutu extremists operating out of the refugee camps

Soldiers speaking Kinyarwands, the national tongue of Rwanda, were openly touring town, shooting repeatedly into the air to scatter locals sifting through the abandoned shops.

nalists

"Affirmative." he muttered

ethnic Tutsi leader who first mouth. "We know their morphology."

And the victors were showing the same media savvy they have displayed since the start of the conflict. Residents said journalists had only been allowed into Goma once Rwandan Red Cross workers had cleared away more than 400

bodies from the streets. The road to the airport, still scattered with bodies, was barricaded, as was the route to the west, making it impossible to discover the condition of 500,000 Hutu refther into Zaire to escape the

The pretence of Rwandan half-hearted.

Near the border, a soldier with the aquiline features typical of a Tutsi inquired what conditions in town were like.

Told that looting was still going on, he said: "They are Zaireans, they know no better. They are starving, that is why we are being nice to

Then he turned away, abashed at how much the remark revealed about his

Sanctions make for a mixed-up market in Iraq

Roula Khalaf penetrates the secrets of Baghdad's bourse

esterday was the US presidential election. Investors To prevent the market crashgathered behind a glass win- ing, the government allows the men and women brokers

orders to sell. On the surface, the Baghdad stock exchange is an ordinary capital market, more lively than many others in the Arab world. Opened in 1992, one year after United Nations sanctions were imposed in Iraq, the market has 98 listed companies and a capitalisation of about ID84bn. This equates to about \$47m at the current rate of 1,800 dinars to the dollar on the black market where most dollars are traded in Baghdad.

Companies in sectors ranging from industry to tourism issue annual reports and crowds of investors flock to the exchange twice a week for a two-hour session. Many of the companies shifted to private hands during a brief privatisation drive in the late 1980s. Shares were traded unofficially for years among friends in social clubs and eventually moved on to. the bourse. Stock exchange officials said investor interest had grown so much that the bourse was being moved

to a larger location. But, like everything else in dinars and buy dollars on Baghdad, the stock the black market in order to exchange, where stocks are quoted in dinars, does not respond to rational market falls on good and bad news, forces. Investors pay little said a stock exchange offiattention to revenues and earnings of companies or to economic indicators; the official Iraqi economy was devastated by sanctions and the government does not publish official statistics.

Instead, the market is speculative. It offers another driver and a civil engineer way of playing the US dol- turns into a broker, what lar's fluctuation against the you get is a mix-up, and the

n the floor of the officials said the market Baghdad stock seems to decline when the exchange, the main dollar is expected to rise when it is expected to fall. cent in either direction dur-

ing every session. The US election should since sanctions, preventing Iraq from selling its oil and from buying anything other than humanitarian goods. are not likely to be lifted in the near future, regardless of who sits in the White House.

The oil-for-food deal freq agreed with the UN last May, allowing it to sell \$2hnmonths in exchange for food and medicine, has been put on hold since Iraq's incurin late August. The UN has said the north remains too unstable for the deal to go

Mr Walid al Saadoun is a civil engineer who had to look for another line of work when sanctions were imposed and construction business dried up. He became one of the 46 brokers on the exchange. "It is not a particularly fruitful bustness, but at least it gives ine

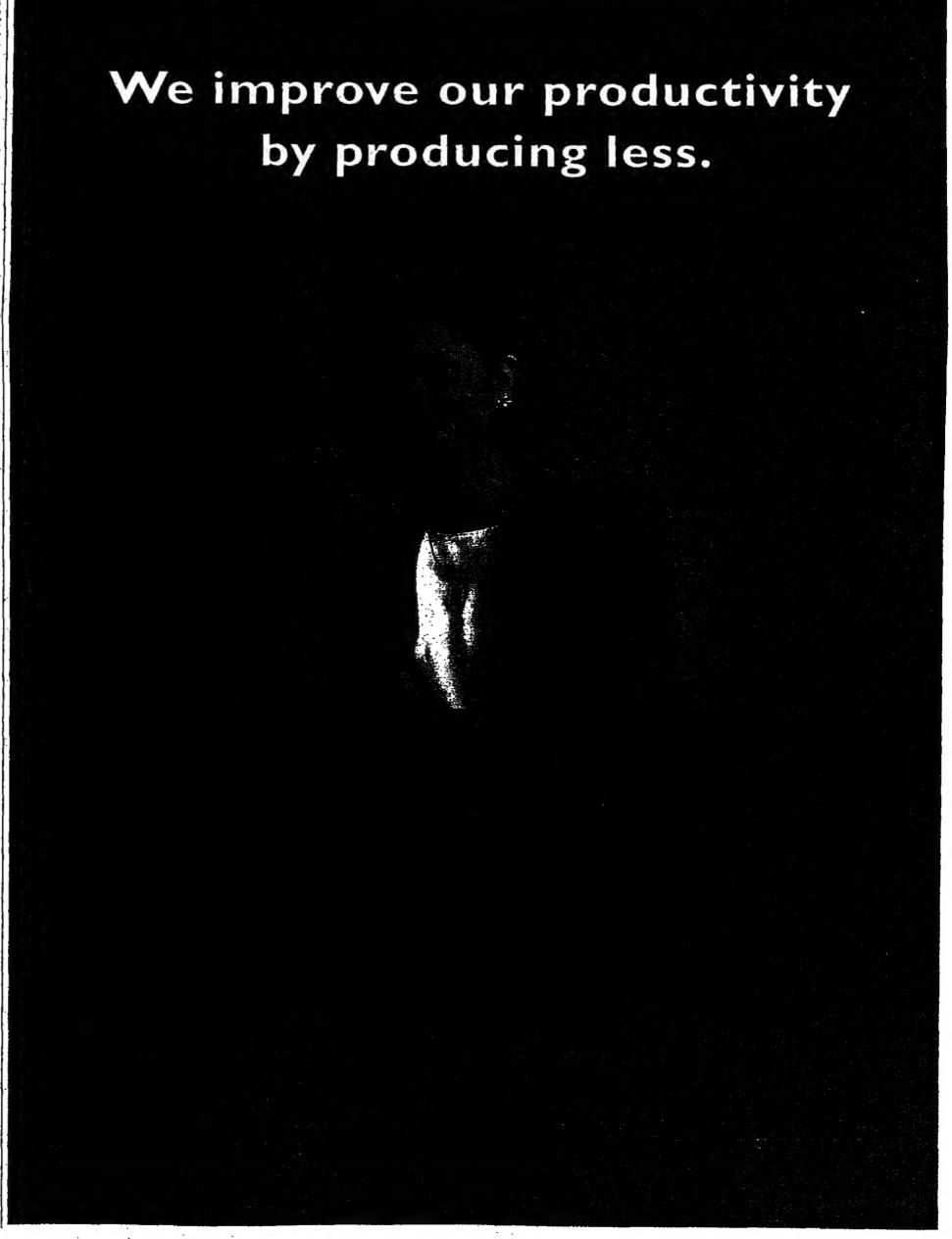
something to do," he said. Mr al Saadoun said inve tors yesterday viewed the US election as good news, though he could not understand why. When investors in Baghdad anticipate positive developments, the dinar's black market value

So investors sell their shares in dinars because they expect to be able to buy more dollars with their dinars. "People prefer to hold dollars and measure their wealth against the dollar," Mr al Sasdoun said.

There are other speculapush the market down when they expect the dollar to rise. They sell their shares in dinars and buy dollars on resell them for more dinars at a later date. "The market the dollar value is stable."

Mr al Saadoun said the

market's performance is understandable. sanctions force a doctor to work as a food wholesaler, a teacher becomes a taxi local currency. Strangely, economy here is mixed up."





through the villa decorated in what could only be described as "African-leader kitsch", revelled in the humiliation of the man whose recent illness has con-tributed to the defeat of the national army, pushed out of north and south Kivu prov-

finished," he said. "His power, his strength is gone." The Presidential Guard responsible for security had not, it seemed, put up much of a fight before withdrawing on Thursday. In their quarters, rooms were

Kenya, Eritrea, Rwanda, Tanzania, Uganda and Zambia and the prime minister of Ethiopia attended the talks on Africa's most serious crisis since the 1994 genocide of stacked with boxes of unused ammunition and

lances and a Land Rover adapted to allow the 66-yearold leader to address his restive public. Its registration plate: a single, huge "P", pre-Mr Mobutu only ever vis-

ited once but, as with every European monarch, the villa imminent arrival. In the upstairs suite, the cravats worn with his "abacost" the collarless jacket he

the 1970s - lay ready. In the first lady's suite the choice of perfume was poi-gnant: "Je Reviens". For Mr Mobutu, said by his spokes-Kinshasa after more than two months of treatment in Switzerland for prostate cancer, is unlikely to return. Goma, officially opened up for the first time yesterday to journalists massed at the border, is now firmly in

ing from their shelters were informed on local radio by

utu's downfall. But despite repeated

strung along the border.

"Who are these men, are they Rwandans?" we asked a local resident, clearly wary of being seen talking to jour-

Mr Laurent Kabila, the rebel from the corner of his

Blair takes hair advice to woo votes

By George Parker, Political Correspondent

Mr Tony Blair, leader of the main opposition Labour party, has flattened his bouf-fant hairstyle as part of a campaign to build bridges with Britain's women voters, who are less susceptible to his political charms than

Mr Blair's hairstyle was identified by Labour focus groups as one of the more frivolous explanations for his relative unpopularity with women.

Last month, a Mori opinion poll showed that only 43 per cent of women were sat-isfied with his performance, compared with 60 per cent of

Senior Labour women MPs are advising Mr Blair on a strategy to recapture the female vote, fearing the gender gap has grown in recent months and could prove a serious handicap to the party's bopes of winning the next general election.

The difference in voting



Tony Blair is to visit more

patterns between men and woman can be decisive. In some US states Mr Bill Clinton would be in trouble against Mr Bob Dole if men alone were allowed to vote, but the president typically enjoys a lead of 20 points or more among women.

The Labour leader has agreed to undertake more high-profile visits to "feminine" environments, instead of to conferences where he is often surrounded by businessmen in suits. Tomorrow he will visit London's Great Ormond Street hospital for sick children with his wife, Cherle, a high-flying lawyer.

Broker's trial by computer

Fidelity still battling with disruption caused by new system

tration could not process

these quickly enough to prevent a backlog developing.

in April, when FBS started

using the Tarot settlement

used without apparent prob-lems by several other bro-

kers, including Barclays

FBS says Tarot often ran more slowly than was

required. It was also unable

tions. For example, accord-

ing to the broker, it could

not issue quarterly income

payments to some clients

who had requested them.

Tarot also sometimes failed

to sweep the cash that built

up in clients' share accounts

when stock was sold to

interest-bearing accounts or

lacked the skills to extract

promptly enough the infor-

mation clients needed from

Tarot. According to Tereuce

Chapman, chairman of TCA

Meanwhile, some staff

to pay it out as cheques.

to perform some basic func-

The difficulties deepened

Brokerage Services provide a cautionary lesson to businesses planning to install a new com-

The firm, which buys and year. Paper-based adminissells shares for clients without giving investment advice, tried to combine the implementation with a big sales push. Administrative chaos followed.

As a result, FBS last week and record-keeping system closed to new private client produced by computing com-business until the end of pany TCA Synergo. This is lanuary at the request of the Securities and Futures Authority, the stockbroking regulator.

This is a heavy blow for the company. FBS was tak-ing on between 100 and 200 new private clients a week. Thanks to the debacle "it is inevitable some existing clients will go to a different stockbroker," Mr David Plucinsky, FBS president, said.
If FBS fails to bring cus-

tomer service back to a level acceptable to the SFA by the agreed deadline, it faces disciplinary action. This could include a fine. The firm's problems began when it launched a marketing campaign to promote

self-select personal equity

plans (Peps), a tax-efficient form of investment for

The travails of Fidelity sophisticated private inves- Synergo: "Tarot is functiontors. It failed to anticipate a ally very rich. You need to flood of applications to set carry out effective training and re-engineer the whole up plans before the March business process to make 31 deadline for tax exempbest use of it." tion in the pext financial The problems, human and

electronic, combined to reduce steeply the level of service, something on which FBS had previously prided itself as part of the US-based broking company, Fidelity Brokerage Group, which in turn is part of the financial services business Fidelity Investments. Share certificates went

left waiting for months for payments, in one case of up to £75,000 (\$122,250). Staff neglected to call customers back with information. 11 but 85 of the 850 A complaints that resulted have been

missing. Customers were

now bracing itself for a second wave. It fears there may be errors in the 19,000 balfyearly statements sent out to its 10.000 Pep customers at the end of last week and has set up a special 22member team solely to deal

with resulting queries.

Last week, Mr Sherif Nada, president of Fidelity

Brokerage Group, flew in from Boston where the company is based, to negotiate with the SFA. The resulting agreement included FBS

<u>andre per la travers de la constitue de la companya del companya de la companya de la companya del companya de la companya del companya de la companya de la companya de la companya de la companya del companya de la companya del companya de la companya de la companya de la companya de la companya del companya de la companya de la companya de la comp</u>

closing to new business.

The brokerage now has the staff to give a good service, according to Mr Plucin-sky. About 60 are fully trained to use Tarot, compared with 40 when the crisis began.

They are sorting out the problems with the help of 25 staff seconded from Fidelity Broking Group in the US and 25 employees of a consultancy that Mr Piucinsky declined to name.

Mr Plucinsky said that most computer bugs which directly damaged customer service had been fixed. Those which remained were a problem for staff rather than clients, he claimed.

FBS says it will compen resolved by FBS - but it is sate clients hit by the debacle. Those who have lost money - for example, by missing out on interest when dividends were paid late - are expected to get cash payouts.

For those who have been inconvenienced without losing money, charges will be

Jonathan Guthrie

UK NEWS DIGEST

Call to curb **TV** violence

Mrs Virginia Bottomley, the chief national heritage minister and Mr Michael Howard, the home secretary, vesterday mounted a campaign against what they see as unacceptable levels of violence on television and in films

Mrs Bottomley wrote yesterday to the chairmen of the BBC, the Independent Television Commission and the Broadcasting Standards Council, calling urgent meetings to see what more can be done "to ensure that television programme makers and broadcasters take full account of

the standards acceptable to today's viewers". Sir Christopher Bland, chairman of the BBC, Sir George Russell, chairman of the ITC, and Lady Howe, chairman of the BSC, have been asked to submit a report by the end of this month saying what measures they have taken to deal with government concerns on violence, and any further proposals.

The same request has been made by the home secretary to the British Board of Film Classification on violence in films, Mr Tom Sackville, home office minister, said that significant cuts in the levels of violence in videos and on television must be made. Raymond Snoddy

M OXFORD UNIVERSITY

Dons reject business school plans

Oxford dons yesterday dealt a surprise blow to the university's leadership by rejecting plans to build a £40m (\$65.2m) business school funded by Mr Wafic Said, the Saudi entrepreneur.

The university's congregation, or academic parliament, voted 259 to 214 against the siting of the school on a greenfield site at the heart of the city. The issue is now likely to be resolved by a postal ballot of more than 3,000 academics and administrators towards the end of the

Mr Alexander Murray, a history tutor at University College who led the opposition in congregation, said: "I am amazed and delighted by what has happened. I am very glad the university has recovered its integrity because it was in danger of losing it."

Proposals for the business school have proved controversial with academics, university staff and local councillors since Mr Sald announced his donation of £20m to build the new college in June.

SINGLE CURRENCY

Pro-Europeans warn City of risks

Pro-European MPs yesterday warned the City of London of the risks of the UK staying outside the single European currency as they launched a campaign laying out the positive case for monetary union.

"The City could find the playing field decisively tilted against it," the MPs claimed in a document circulated to banks, financial institutions and industry. The pumphlet, "The other side of the coin", published by the European Movement, says there is a danger of the UK being outmanoeuvred in the negotiations over access to key part of the new financial system.

The MPs attempt to refute some of the "fanciful" allegations made by the opponents of UK membership. The European Movement's campaign was welcomed by Lord Kingsdown, former governor of the Bank of England, the UK central bank, as a "useful and progmatic contribution

MUSIC BROADCASTING

Plans to rival MTV Europe

As many as three consortia are considering plans to launch music cable and satellite television channels in the UK to rival MTV Europe, the pan-European music

Granada, the media and leisure concern, has held exploratory discussions with four of the UK's largest record companies about proposals to introduce a specialist music channel.

Virgin, Mr Richard Branson's leisure group, has begun negotiations with BSkyB, the satellite television venture. regarding proposals to establish a joint venture to run another music channel.

The BBC last week unveiled plans to launch a television version of Radio 1, its pop station, in a proposed joint venture with Flextech, the US-owned cable and satellite channel operator.

Established record companies approached by Granada are interested in increasing their involvement in broadcasting. The four – PolyGram of the Netherlands, the UK's EMI, Warner of the US and Japan's Sony - are already involved with Viva!, a German music channel which successfully competes against MTV Europe in that

■ CABLE TELEVISION

Industry accuses satellite venture

The cable industry yesterday accused British Sky Broadcasting, the satellite television venture, of impeding the entry of alternative channels and programme providers into the UK pay television market.

The complaint was made in a formal response to the

Office of Fair Trading's consultation on the proposed new BSkyB "rate card" which would determine the wholesale price cable operators pay for BSkyB television channels. If the cable industry cannot persuade the OFT that the proposed rate card should be modified, it plans to push for a Monopolies and Mergers Commission inquiry and will also take the issue up with the European Commission in

PUBLIC TRANSPORT

Operator to buy 914 new vehicles

FirstBus, the country's biggest bus operator, is buying 914 new vehicles as part of an £80m replacement programme over the next two years. It is the privatised industry's

first substantial order for custom-made buses.

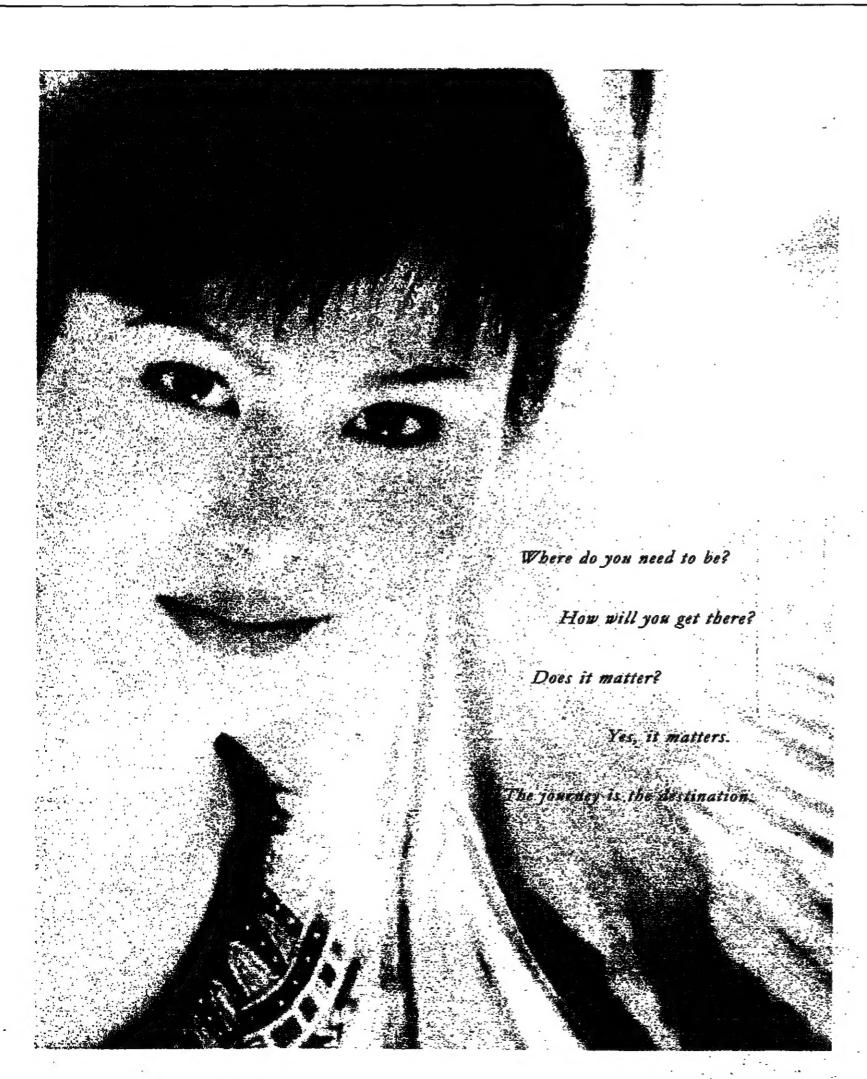
The group, which this year acquired Greater Manches the group, which this year acquired Greater manchester bus company in the north-west and Strathclyde bus company in Scotland, has placed orders for 584 vehicles, worth £50m, for the year ending March 31 1998. All the bus bodies will be made in the UK by Alexander of Scotland, Wright of Northern Freland and Plaxton of England. The chassis will be made by manufacturers abroad, including Volvo, Scania and Mercedes. FirstBus, which compands 20 per cent of the UK bus market, said the new vehicles would be used to replace old buses in its existing

■ MANUFACTURING OUTPUT

Data suggest recovery spreading

UK manufacturing output grew modestly last month, suggesting that the economic recovery is now spreading from the services sector to become more firmly entrenched in

Manufacturing output grew a seasonally adjusted 0.3 per cent in September, compared with a fall of 0.3 per cent in August, the Office for National Statistics said yesterday. Mr Simon Briscoe, an economist at Nikko, said the modest recovery in manufacturing output meant that there was no need for another interest rate increase. He said rates were not likely to change until after the general election, which is expected early in 1997. Graham Bowley



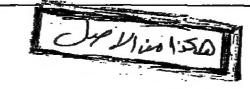
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NEWS: UK

rules out big cuts in tax

By Robert Peston, Political Editor

The UK cabinet yesterday agreed to increase public spending in real terms next year, at the price of ruling out big tax cuts in the forthcoming Budget

The prevailing view at the top level of government is that the electoral prospects of the ruling Conservative party will not be significantly enhanced by substantial income tax reductions. but that a schools or health service funding crisis would be very damaging.

Ministers approved increased allocations for hospitals, schools and the police. These will not be off-set by swingeing cuts in any big spending departments.

C. Everyside and matter file.

coval MIN East

A senior member of the government said yesterday that the main spending total used in the annual expenditure negotiations - called the control total - is likely to be about £1.5bn (\$2.44bn) less than the £268.2bn pen-

cilled in a year ago. This would represent a cash increase of almost £7bn on the current year's planning total and is more than that needed to keep pace with the 2.25 per cent inflation rate predicted.

The outcome represents a victory for Whitehall's big spenders over Mr William Waldegrave, the Treasury's chief minister in charge of keeping public expenditure under control. In the early autumn, he had hoped to shave £3bn from the planned control total.

The settlement means net tax cuts are unlikely to exceed £2bn, ruling out any prospect that the 24p basic rate of income tax will be cut by more than 1p.

Among the big winners was the health department, which secured an estimated additional £600m for hospitals on top of the £34.2bn

education minister, obtained



Michael Portillo: squeezed

a relatively generous settle-ment for schools, at the expense of a squeeze on university funding and resources for training and enterprise councils. Mr Michael Howard, the home affairs minister, was said to be

delighted by the allocation for the police and prisons. However the Treasury won a partial victory over the defence minister, Mr Michael Portillo, who faced intense pressure to cut military support services. A colleague of Mr Portillo's said yesterday that although he had been forced to accept a squeeze, the stability of the armed forces would not be

In social security - the biggest spender with a £90bn budget - cash payments to single parents will be frozen for a second successive year and there will be a further crackdown on fraud. However, more radical measures to trim benefit entitlements have been dropped because of the risk they would fail to get through parliament, given the government's slim majority.

Editorial comment, Page 13 | more than two years receive

PROPERTY AND ARTES AND ARTES

Spending rise Manchester chooses \$815m rebuild plan

Manchester, in north-west England, yesterday launched an ambitions 2500m (\$815m) four-year project to rebuild its centre, which was destroyed by an IRA bomb in

The new city centre will feature Millennium Centre modelled on the Pompidou complex in Paris, a pedestrian street leading to the cathedral, and a radical redesign of the Arndale centre, the city's main shopping complex.

A panel of business and political leaders yesterday announced the winning team of architects and urban designers which will mastermind the reconstruction. Led by EDAW of London, the team heat 27 rivals to redesign 23.6 hectares of the city centre, extending well beyond the buildings damaged by

the terrorist attack. More than 200 people were injured by the 1,500kg bomb, which devastated one of the UK's busiest shopping areas.

premises destroyed, including UK retailer Marks and Spencer. Most have found temporary

accommodation near the Arndale centre. These including M&S, which plans to build its largest UK store close to the bomb site.

Sir Alan Cockshaw, chairman of Manchester's judging panel, said:
"We want to create the very best city centre in the whole of Europe, fit for the 21st century, and one which the people of Manchester

can be very proud of." ment is expected to

fund about £100m of the recon-struction, particularly for infrastructure projects. Ministers have already diverted £20m of European Union funds from the wider north-west region into the

But much of the finance is likely to come from insurance claims and £400m is expected from the private sector. The project's leaders will also attempt to convince five landlords - who control most of the centre - to renovate or demolish their own buildings. They said they

and the second second

purchase orders as a last resort. The most dramatic part of the new city centre involves the demolition of the unpopular Shambles Square and the sideways move of the medieval Shambles pub, which stands on piles.

The 1960s Arndale centre is to be redesigned with glazed walkways and a covered Winter Garden.

Electric shuttle buses will ferry shoppers from car parks and tram stops into the heart of the new city

Scheme helps employment data shine

Results of US-style workfare encourage its expansion

est Britain has come to US-style workfare, is set for rapid expansion following early evidence from a government pilot scheme in two different parts of Britain in which recipients were obliged to work for benefit

Two pilot schemes for up to 8,000 people - at Medway and Maidstone in Kent, in the south-east of the country, and in Hull, in the north-east - have resulted in a high proportion of candidates leaving the unemploy-ment register, although only a small number are known

to have jobs.
Mrs Gillian Shephard, the chief education and employment minister, who will detail more of the expansion plans this week, said: "The early results from the first pilots have been impressive. Project Work is having a significant effect in belging people who have been out of work for a very long time and who really want a job, and in weeding out those who don't."

Under the scheme, people aged between 18 and 50 who have been unemployed for

roject Work, the clos- 13 weeks of intensive help in searching for a job, followed by 13 weeks of compulsory work experience. Those going on to work experience receive an allowance equal to their benefit plus £10 (\$16.30) per week. Refusal to attend results in loss of state benefit.

So far, 2.481 people have been on the pilot scheme at Medway and Maidstone. To date, 20 per cent have left the register after the first 13 weeks, and a further 37 per cent have left the register at the second, compulsory work experience stage. Similar results have been reported from Hull.

Of the Kent clients, only 120 are known to have filled vacancies advertised in a Jobcentre (state employment office). More may have found jobs and not notified the Employment Service, but even so the figures seem at odds with Mrs Shephard's recent claim that "many have found jobs".

She seemed much closer to the mark when she said: "A noticeably high number have simply ended their claim on referral to mandatory work experience. This - to another 100,000 people suggests that the approach



Enjoying their work: Tilly March (in the stripes) and Grace Beament at the old people's centre in Maidstone

is particularly effective in deterring those whose claims

are not genuine." Mr Bob Keen, project manager at Maidstone, declined to speculate about people's reasons for leaving the register, but added: "There is a bit of carrot and stick. The black economy is always

Mrs Shephard first chose to flag the expansion of Project Work at the ruling Conservative party's conference in September, even though the pilots will ron until July. It may seem rash to spend a further £70m in expanding the scheme - the move is planned for early next year

across the country before the pilots have been fully evaluated, but the potential rapid payback in terms of lower unemployment figures has clearly proved to be

The Trades Union Congress has called Project Work a step down the road to workfare. The main opposition Labour party

described it as a gimmick. Labour has also criticised the lack of training and education on the scheme. But the party has said it is ready to remove benefit from unemployed people aged under 25 who refuse offers of a job or more education. Given Labour's determina-

tion to root out benefit fraud, the opposition will also be taking careful note of the numbers leaving the reg-

But Project Work is not just about forcing people off the register. It can also provide inspiration and confidence, according to Mr Geoff Jones, training manager for Community Link, one of the private sector organisations which is organising the work experience element.

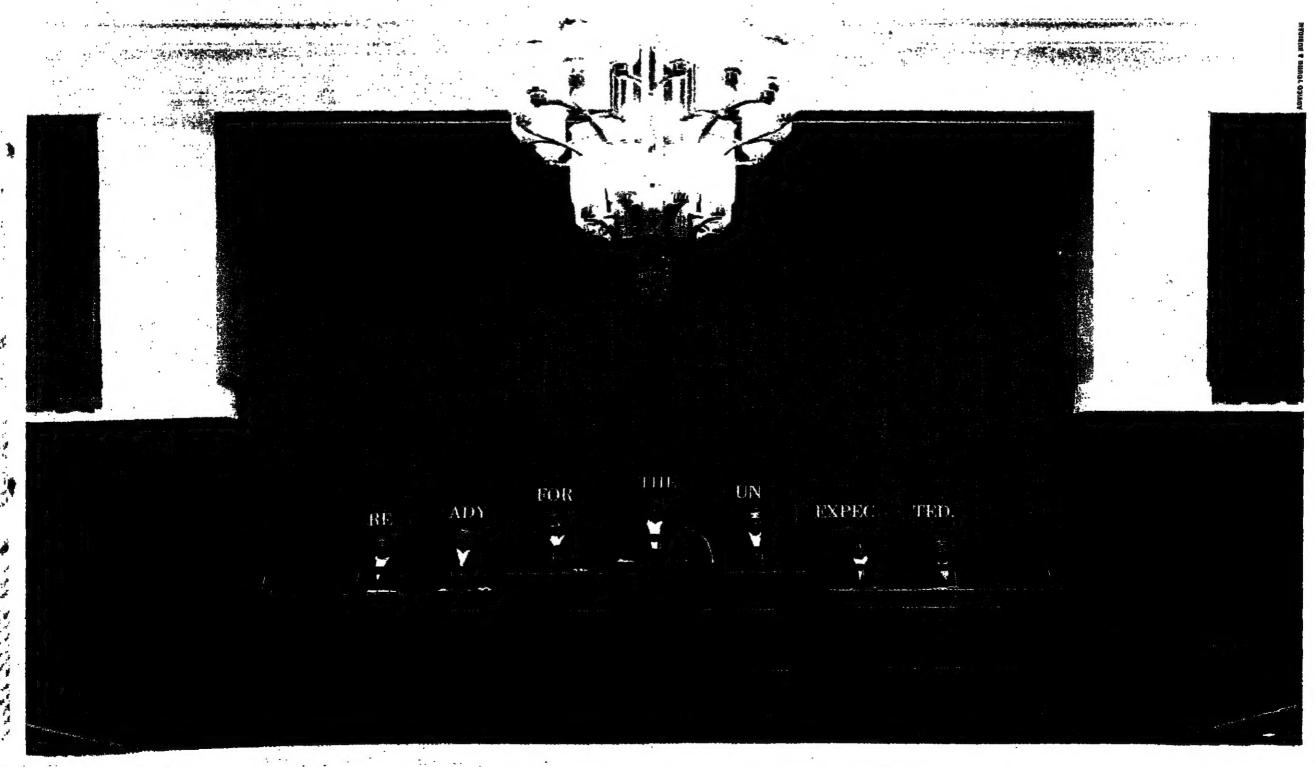
"Lots of people have had so many rejections that they have lost the will to look for work," he said. "This gives them hope - they have just got into a rut of not applying

Ms Tilly March, 22, bas not worked since leaving school. She is now working at an Age Concern day care centre in Maidstone, belping in the kitchen and caring for the elderly clients. She said: "I didn't like being forced into

it, but it's all right once

you're here.' Also at Age Concern's centre, Ms Grace Beament, 23. has been unemployed for two years, having previously worked at another old people's home she did not like. She said: "I like it here. It is good experience and I hope it will get me a good

Andrew Bolger



Once upon a time, a company had a clear-cut purpose and a simple set of responsibilities: produce, prosper, pay taxes. Over the years, however, corporate life has been getting tougher. A growing number of interests have to be reconciled. How can you satisfy consumers. shareholders, employees, the

environment, the community and the state all at the same time? With the threats of liability law suits multiplying, traditional insurance thinking is

not the answer. Instead, reliable methods of risk analysis and risk engineering must be systematically applied. A leading global insurer is more

likely to have the professionalism and strength to provide them to the same high standard worldwide. And the experience to show you results.



a martin de la comparta de la compa

Caroline Southey on the controversy surrounding the EU's eco-labelling scheme, especially in the copying paper sector

products from light bulbs to loo paper. But, in the name of a good cause, there is a risk that industry is being alienated and consumers are becoming confused.

The root of the problem is the growth in the number of eco-labels - markings awarded by the European Union only to products which meet environmentally-friendly standards.

The labels have a dual aim: to encourage industry to market greener products and to give consumers information about products which are environmentally less damaging.

But do eco-labels fulfil these two goals? The question is being asked more urgently following the European Commission's recent decision to press ahead with two new eco-labels - one for copy paper and the other for refrigerators.

The EU eco-label system is voluntary, the idea being that market forces will lead to wider use once a few companies begin actively using them as marketing tools. "The idea is to encourage competition between compantes by getting them to fit eco-labelling into their business strategy," says one EU

The criteria needed to qualify for the EU's ecoConfusion of profusion

labels have been drawn up by the Commission for 11 products since the scheme's inception four years ago. The process has involved long consultations with industry federations, companies and environmental pressure groups. The products include washing machines, paper kitchen rolls, laundry detergents, paints and var-nishes, bed-linen and T-shirts, copying paper, light bulbs and refrigerators. The Commission is working on plans to extend the regime to footwear, stationery products, batteries and personal computers.

But the EU regime has been dogged by controversy. Industry is divided over the merits of the scheme. As a result only a small number of companies, 11 in all, have applied for the awards in some of the product categories. For some products. such as textiles and dishwashers, no applications have been forthcoming.

nishes sector, which has are ICI Paints of the UK. Alcro-Beckers of Sweden and Tintas Dyrup of Portugal. EU officials believe that the patchy response is partly

Companies have opted to stay with the national or regional label rather than switch to the **EU-wide system**

due to the fact that some sectors are "very sensitive to environmental issues" while others are "not yet ripe" for this sort of marketing

industry's cool response is rooted in a number of factors. The first is

The biggest take-up has that the EU is littered with been in the paint and varsuch as the "white swan" in attracted 80 per cent of the Scandinavia and the "blue applications. Among them angel" in Germany, which companies have been reluctant to relinguish. The take-up for the nation. al labels has been high in some countries and for some products. The "white swan," for example, now appears on 70 per cent of some paper products in Scandinavia.

> stay with the national or regional label rather than switch to the EU-wide sys-tem because consumers have become familiar with the local logos. "In countries where eco-labelling is widely used the local labels define green products which customers can recognise. Companies don't want to give them up," says Victor Sundberg, environmental officer for Electrolux, the Swedish appliance group.

Industry analysts believe this trend could be counter- trust labels at all," says one.

Companies have opted to

productive. "There has been a proliferation of labels. It is becoming harder for industry to know which label to choose," says Simon Goss of Euratex, the EU textile federation which represents 120,000 textile and clothing

EU officials concur. "It is confusing for consumers. This proliferation could devalue the eco-label scheme and lead consumers not to

some and costly and that the Goss admits that "in practice the EU label is a good thing. Harmonisation would help. It is impossible to sell something with 15 labels on and impractical.

But, he adds, the EU schemes are unattractive to industry, another leading contributing factor to the failure of the EU labels. Criticisms of the EU scheme vary from industry to industry, but some common points are that it is cumber-

criteria for the first batch of products were poorly defined "The Commission was

often on a collision course with industry when it first set up the scheme. It has now realised that the system cannot work unless it has industry on its side." says Sundberg. A prime example of poorly defined criteria was the eco-

label for dishwashers. First introduced in late 1993, the scheme attracted no applicants. "The criteria for water consumption were too low. On the other hand, the performance criteria were too high. There was absolutely no incentive to apply," says an official from a leading Technology manufacturer.

more consistent approach to week

make sure the criteria are practical and technically applicable." an EU official says.

The changes are part of a

broader overhaul of the EU's eco-labelling regime which includes streamlining the application and award process. Companies complain that it takes too long for applications to be processed by the national bodies which manage the scheme under the umbrella of the European Eco-label Organisation.

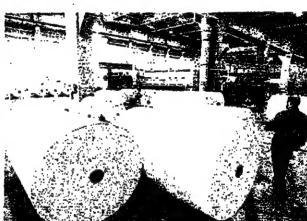
The Commission will also address the concern that the labels are too simplistic. "It is no good offering a simply black-and-white choice. A product might be less green because it has not got the label, but it does not mean it is not green," says Sundberg. Some sectors argue the labels should offer some differentiation by grading products. This could be modelled on the EU's compulsory label for energy consumption which grades products according to the rate at which they use energy.

Despite all the difficulties there is a strong body of opinion that the EU's ecolabelling will attract wider interest in the longer term. "The EU scheme is gathering momentum. The Commission has gone through a learning process and is now taking a more pragmatic approach. There will probably never be a stampede for eco-labels, but I believe they will become increasingly popular," says Goss...

Information

The Commission has sub- The Business and the Envisequently withdrawn the ronment page now runs on label and EU officials admit the first Wednesday of each mistakes were made. "On month, when the FT IT surthe basis of our first experi- vey appears. FT IT returns to ences we are developing a the Technology page next

Paper warfare



ontroversy still rages over the European decision to press ahead with an eco-label for copying

This particular eco-label has provoked more passion than any of its predecessors, drawing fire from the paper industry on both sides of the

Atlantic. Eco-labels for the paper sector are not new companies have already applied for the EU's kitchen lowels and toilet paper label. Fort Sterling, a British company, uses the EU's eco-label on three makes of kitchen towel and toilet paper.

In Scandinavia more than 70 per cent of some paper products carry the local white swan" eco-label. Leading paper retailers say the labels have become integral marketing tool for a majority of pulp and paper

"The labels help us to market products. Most big buyers want to know whether we carry the white swan before they will buy the product," says one leading Swedish paper retailer.

But even Scandinavian paper producers are rethinking their eco-label policies. The reason is that the criteria for paper eco-labels differ from those for all other products in that they target the production process, not just the product

"Companies are obliged to act on the production process. In all the previous cases of eco-labelling we have only called for modifications to the product." an EU official explains.

The criteria which companies are invited to meet to qualify for the EU label include cutting chlorine and sulphur emissions as well as energy consumption during the manufacturing process. Paper milis must also

meet water effluent limits.

An additional criterion is that companies must be able to provide documentary proof that the product comes from wood fibre that has been grown in environmentally-protec forests. The Commission believes this will encourage sustainable forest

management. But leading paper manufacturers complain that it is impossible to keep modifying production techniques to meet criteria which are revised every two to three years.

"We work in a capital-intensive industry. The technical life of equipment is 10 to 20 years. It is not possible to alter this every few years," says Carl-Johan Alfthan technology director for Modo Paper Husum in . Sweden.

in the Confederation of European Paper Industries also believes the criteria discriminate against some producers because the favour companies which produce pulp and paper against those that buy in

their pulp. In addition, the America Forest and Paper ssociation believes the labels could pose a severe trade barrier and are pressing the US administration to refer the issue to the World Trade Organisation

But EU officials believe that the federations are more hostile to the eco-label scheme than the companies they represent.

The eco-labels are designed to create competition. Federations do not like encouraging competition between their members. It is not something that they can openly support," says one EU official.

CS



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he old idea of television making seasonal programme changes three times a year, discarding whole lists of series and introducing new ones, is virtually dead. Network controllers still use the arrival of autumn as an excuse for extra ly's World Tour of Australia brain", was fascinating: a disballyhoo about new pro- (BBC1 Mondays). The series set ease capable of taking very mild these days new series start every.

ballyhoo about new pro-grammes, but the truth is that week. My notebook for last week includes nine new series and, using television's own established practice, we shall employ a points system and consider them in reverse order.

One out of 10: Sometime, Never (ITV Sundays). A half hour comedy based upon such tired ideas that you wonder how it got beyond the planning stage. Max, a loud-mouthed female teacher, is passed over for promotion in favour of a Thatcherite younger woman whose ambition is (typically contrived joke) "to close a school of her own one day". Max lives in the basement of a house owned by her friend Bernice. Both women are stone-agé feminists. Bernice cannot leave Kevin to feed their children because "Last time I did we had to have their stomachs pumped

and I found sawdust". Two out of 10: Billy Connol-

Shakespeare's plays are alive on the British stage today,

despite the great frequency

with which they are revived. Actors

and directors here behave in Shake-

Paper

Television/Christopher Dunkley

Nine new shows – in reverse order

in Scotland, combining travelogue scenes of Connolly visiting old haunts with excerpts from his one-man shows was nearly very good. The poignancy of the childhood memories and the exultant swearing in the effortlessly funny stage act sparked off one another splendidly. The attempt to do the same thing in Australia is nearly very bad. Connolly now exploits his own celebrity status, enthuses over everything like David Bellamy speed - "Un-be-lieve-able!" he bellows repeatedly at the Sydney Harbour Bridge - and works ancient material to death. Scorning "person-hole-covers" was funny in 1969.

■ Three out of 10: The Mind Traveller (BBC2 Thursdays). Oliver Sacks also comes danger-ously close to celebrating his own celebrity. The subject of this opening programme, in a series promising a journey "through the mysterious folds of the or appallingly extreme forms, and limited to a tiny area of Guam. But Sacks' royal progress among the sufferers put you in mind of a ward round by James Robertson Justice. The result was television's version of a rar-Four out of 10: Staving

Alive (ITV Fridays). ITV decided

that since its nine o'clock drama

slot had now contained 926 crime series the time had come for a hospital series, there having been a mere 874 of those. Hence this bedpan saga set in the Gilmore Hospital, wittily known as the Kill More. Episode 1, which was a sort of Magnificent Seven round-up with all the characters being introduced, tried to achieve the speed and impact of ER but felt instead like Casualty. Formula drama, proficiently made, it will probably do its job and hold up the ratings for the advertisers in this key

(Channel 4 Sundays). A game show which takes the idea of Treasure. Hunt, adds more money, more people dashing around the country, pursuers on the lines of The Fugitive, expert commentators in the studio (a former member of the Flying Souad and double agent Oleg Gordievsky) and as presenter. for no obvious reason, right wing newspaper columnist Richard Littlejohn. The determination to inject drama by arranging to have the hunters close behind the hunted while the programme is on the air looks strained, but if Boy Scout wide

Six out of 10: Accused (BBC1 Sundays). Yet another courtroom drama, looking remarkably like Granada's Crown Court. Nobody would plan for a half-hour drama series to run from 11.35 until after midnight on a Sunday, so something must have gone wrong here. Too

games are your thing you may

- Five out of 10: Wanted downbeat? The opening story of (Channel 4 Sundays). A game a young heroin addicted prostitute, trying but failing to break away from an evil pimp, was certainly not the merriest way to end the weekend. But Christopher Reason's script was taut, and the acting was good.

■ Seven out of 10: Where's Elvis This Week? (BBC2 Sunday). British chat shows are in the doldrums because producers have focused on the presenters instead of the guests and very few presenters are up to it. This series goes back to the idea of concentrating on the guests. Better still it has a new wheeze: to interpret the Americans for the British and vice versa. Made in New York, with an American host (Jon Stewart, bright and capable) it has two American guests and two British who try to sort out just how we come to be two cultures divided by a single language. This week's subjects – fitness, obesity, sitcoms - worked well, although the British guests, Martin Clunes and David

Baddiel, were much livelier than their American counterparts.

Right out of 10: Third Rock From The Sun (BBC2 Thursdays). An American comedy which sounded doubtful but proves remarkably effective. Here is a sitcom which actually depends for its com upon a strong and unusual sit: four aliens assume human form to study the human race. Portraying human habits, social conventions and emotions in literal fashion, as seen through the eyes of an alien, does make homo sapiens look like homo idioticus. Mr Spock has been milking the gag for decades in Stor Trek, but it is still funny. A male alien at a party kisses a female guest who slaps his face, so when he leaves and the hostess pecks him goodbye on the cheek he slaps her confidently round the chops. A female alien who starts crying is asked by a fellow alien "What are you doing?" and replies incredulously "Leaking apparently", and so on. Funny.

Wednesdays). A verité documentary series about life in the area of London's West End which specialises in strip joints, restaurants, prostitution, the cinema industry and much besides. I began going to Soho to buy secondhand books when I was 11. Today I record a radio programme once a week in a Soho basement. In the intervening 40 years people have repeatedly told me that "Soho isn't what it was" and they are right. That is its strength and part of its charm: immigrants, wannabes, crooks and geniuses are always passing through. Monday's episode showed the Soho synagogue closing, which was sad, but Christopher Terrill who has made this wonderfully fluid and entertaining series on a modern lightweight camera, seemingly virtually alone, understands his subject well enough to know that something else will open. Via this series we already know Danny the drag artist and Gerard the director at the Ray-mond Revuebar as well as viewers know the characters in soap operas. Why end Soho Stories? Just run it three times a week indefinitely: the world's first

Nine out of 10: Soho Stories

(BBC2 Mondays, Tuesdays &



Focus on nen-verbal effects: Rachel Sanders as Ariel in Shared Experience's new production Theatre/Alastair Macaulay is dismaying how seldom

This 'Tempest' hits the rocks

speare as they seldom do, curiously, in Ben Jonson or Marlowe; they treat him as a too-familiar premise for fancy performing style, for striking visual effects, for clever reinter-- but they cannot bothered to tell the stories in an cal A mime prologue showed a sexinnocent way that will help newcom- ual encounter between Caliban and Miranda interrupted by Prospero. ers to his plays. The new Shared Experience stag-You could scarcely bear Caliban's transcendent speech of how "The ing of The Tempest, mildly preteniale is full of noises" because you tious and extremely dull, is just the latest example of this depressing and could not get past the semi-strangulated vocal tone and English-as-a-sec-

decadent trand. Watching it, you cannot help but discuss the things ond-language elocution with which Richard Willis uttered it. Shared Experience have chosen to Sure, Ariel (Rachel Sanders) sang read into or impose upon Shakespeare; but there is almost nothing fairly pleasantly some very pleasant : but few of the words she sang to be said about the actual words could be made out. Even Trinculo's that Shakespeare wrote, for these are so flatly (and artificially and classic joke about "The State totters" and Miranda's radiant "O crudely) delivered that they reach your ear dead, stillborn. This kind of brave new world" exclamation fell flat. Miranda (Rebecca .Jackson) production usually angers me. On spoke in an exaggeratedly artiess, adenoidal, wild-child manner, and this occasion, since I watched it with three friends who were seeing The Ferdinand (Adé Sapara) so lisped Tempest for the first time, I falt also that, when, after the performance, I read again the lines in which he Here, what we were encouraged to

focus on was all non-verbal: effects praises her, my friends realised they had been speaking. There were worse than this: Alonso, Sebastian, Gonzalo, Antonio. The freshest speaking came from Lucas Hare in the smallest roles.

> ut why blame individual actors? Nancy Meckler, artistic director of the company and director of this production, must take responsibility. In recent years, I have seen Michael Cashman play several Shakespearian roles. As Prospero in this production, he takes forther the worst tendency he has shown in them steady monotony of utterance without any sign of his real virtues as an interpreter. Hardly had the play begun than, by chanting his long narration to Miranda in ashgrey tones and leaden emphasis of metre, he lost his audience and

delivered a death-blow to the play. An entirely meagre performance.

Meanwhile, of course, physicality and what people now call "theatricality" abounded. Prospero and others played meaningfully with mean-ingless piles of tand around the stage; the white sails of the sails having tossed to show a tempest became moving screens to effect changes of scene; the storm was also l Dy Waves and Ci crosses of movement, some with ropes; and Miranda did several mock-exotic gestures to demonstrate her alien nature. Wind noises sounded through - drowning or muffling - several important episodes. Some of Peter Salem's music was far more poetically alive than any of the text.

Yes, Meckler's production has virtues, but they are virtues that Shared Experience (a company known for its physicality and in particular for its adaptations of novels) has stuck all over The Tempest like luggage labels. The play itself is left a lifeless and inconvenient blank which Shared Experience covers with style, style, style,

At the Wolsey Theatre, Ipswich, until November 9. Then touring.

Concerts/David Murray

Chailly in elegiac mood

cardo Chailly has been touring Spain with the London Symphony Orchestra, and at the Barbican last week he led them in a pair of concerts: early Britten with late Mahler on Wednesday, and on Thursday early Schoen-berg followed by the whole first act of Wagner's Die Walkure.

Not what one might expect from an Italian conductor; but Chailly's repertoire is uncommonly wide-ranging. To all this music he brought a full measure of conviction. and the LSO's playing for him was alert and beautiful. If there was anything slightly "foreign" in his readings, it was the near-absence of flexible Teutonic rubato, at least in the nonoperatic music: Chailly likes very steady tempi.

So treated, Britten's Sinfonia da Reauiem sounded perticularly elegiac and distanced, almost marmoreal no mote of hysteria in the "Dies irae", and only temperMabler's Tenth Symphony, played here in the version completed by Deryck Cooks, Berthold Goldschmidt and the Matthews brothers, was infinitely melancholy and limpid. Its extraordinary dissonant counterpoints became transparent, and the finale ethereally poignant.

choenberg's Verklärte Nacht shared the same tone on the next night. Little Sturm und Drang in the workings-out, but perfect poise and gentle radiance in the final "transfiguration"; Chailly used Schoenberg's later, subtler transcription (1948) of the sextet for string band, and made all its details glow.

In the long Walkers act he supplied richly sensitive support for his three singers. His Sieglinde was the young Swedish soprano Katarina Dalayman, who made an enormous impression: absolute confidence, power and delicacy as and when will

timbre (which always suits this role). Better German would help: in that respect, Wolfgang Schmidt's superb diction as Siegmund left Dalayman's words sounding disappointingly muzzy.

Schmidt's intelligent, thor oughly professional performance grew more impressive as the act progressed. His tenor has a hard ring, and in forte a distinct component of paint-stripper; but he was tirelessly equal to the formidable demands of the role, and managed to shift into a softer, gentler mode for a few blamed moments By contrast Gudjon

Oskarsson sang the brutal Hunding in a most mellifluous, unthreatening bass - a pleasure to hear, if not exactly a vintage brute. Musically, this was an outstanding account of one of the most inspired acts of the Ring: and I should add special thanks to the LSO cellos, who seized their sumptuous opportunities with a

Bottomiey argues the heritage case

eritage secretary ing the case for Heritage. Virginia Bottom-ley is in Leeds today, talling the British Urban Regeneration Association how the arts and life into depressed inner cities. She is speaking at the new Royal Armouries Museum, one of the few success stories from the Private Finance Initiative, and the most ambitious development in a city that has gladly embraced tourism and the arts after the decline in its textile industry.

But Bottomley's words are not for the converted but for the sceptical in the Treasury. At the last moment she s still trying to influence the Budget on November 26. As things stand now her own budget at Heritage, of £960m, will be cut to pay for more hospital beds and reductions in taxes. She faces a hard task areu-

The Arts Council is terrified that its promised reduction of £8.2m for 1997-98, leaving it with just under £188m, will be greater. Some pessision, which would force the council to make invidious choices, protecting some while sacrificing others, perhaps to closure. In the event Bottomley might keep the grant reduction to £5m.

The problem is that Bottomley is fighting her corner weighed down with lottery money: £2.4b of lottery funding has already been pumped - or promised - into communities; the arts alone have benefitted with £650m and heritage with £300m. Of course John Major, who created the lottery, pledged it would provide additional money to be concentrated on, capital projects but its very presence makes it easy for the Treasury to insist that

Heritage takes its place with other ministries in financing lower taxes.

All Bottomley can do is to try and convert some lottery money into revenue funding schemes and the stabilisa tion fund, while pointing the arts towards other sources of income. Local authorities. with over £200m, give more to the arts than the Arts Council; the Foundation for Sport and the Arts is worth over £20m a year, arts sponsorship weighs in with £80m; and there is the Single Regeneration money and European Development Funds. She wants to direct attention away from the Arts Council and its annual whinge. She also wants to make the point that at least she, and John Major, believe in lottery funding of the arts

Antony Thorncroft

INTERNATIONAL

AMSTERDAM

Concertgebouw Tel: 31-20-6718345 Rotterdams Philharmonisch Orkest: with conductor Tuomas Ollila and pianist Olli Mustonen perform works by Tippett, Beethoven and Nielsen; 3pm; Nov

BERLIN CONCERT

CONCERT

Konzerthaus Tel: 49-30-203090 Lelpziger Streichquartett: perform Beethoven's String Quartet in F major (based on Piano Sonata No.1, Op.14), String Quartet No.1 in F major, Op.18 and String Quartet No.1 in F major, Op.59; 7.30pm; Nov 7

Staatsoper Unter den Linden

Tel: 49-30-20354438 Ballett der Staatsoper Unter den Linden: perform Michail Fokine's Les Sylphides to music by Chopin, Le Spectre de la Rose

to music by Von Weber, and The Dying Swan to music by int-Sāens, Vaslav Nijinsky's L'Après-Midi d'un Faune to music by Debussy and Bronislava Nijinska's Les Noces to music by Stravinsky; 7pm; Nov 8

■ COLOGNE

CONCERT Kölner Philharmonie Tel: 49-221-2040820

Gürzenich-Orchester and the Kölner Philharmoniker: with conductor Leopold Hager and violinist Torsten Janicke perform works by Tchaikovsky, Szymanovsky and Dvořák; 8pm; Nov 10 (11am); 11, 12

COPENHAGEN DANCE Det Kongelige Teater Tel: 45-33

69 69 69 Hamlet: a choreography by Peter Schaufuss to music by Sort Sol and Langgaard, performed by the Royal Danish Ballet and the Royal Theatre Orchestra; 8pm:

EXHIBITION Ny Carlsberg Glypothek Tel:

Nov 8

45-33 41 81 41 125 Years of Danish Sculpture - Danish Sculpture Around 1900 and Carl Jacobsen: on the occasion of the 125th anniversary of Den Danske Bank, a series of exhibitions is presented at 18 art museums and galleries all over Denmark under the title "Danish Sculpture in 125 Years". Each exhibition provides 2 comprehensive survey of what

has happened in the field of Danish sculpture since the era of the Classicist sculptor Bertel Thorvaldsen; to Nov 17

DUBLIN

CONCERT Netional Coocert Hall -Ceoláras Náislúnta Tel: 353-1-6711888 Garda Gala Concert: concert in

aid of the Irish Wheelchair Association, featuring the Band of An Garda Slochána with conductor John King, barttone John Roche and tenor Michael Lang, the Garda Siochána Maie Voice Choir with music director/ baritone Peter McBrien, and the Lady Singers led by Irene Thompson. The works performed range from classical music to traditional military airs up to popular music; 8pm; Nov 7

FRANKFURT AM MAIN

OPERA Städtische Bühnen Oper, Ballet,

Schauspiel Tel: 49-69-21237444 Semiramide: by Rossini. Conducted by Sylvain Cambreling, performed by the Oper Frankfurt. Soloists include Sally Wolf, Dagmar Pecková, Harry Peeters and José Medina; 7pm; Nov 9

HAMBURG

OPERA Hamburgische Staatsoper Tei: 49-40-351721 Die Entführung aus dem Serail: CONCERT

by Mozart. Conducted by Bernhard Klee, performed by the Hamburg Staatsoper, 7pm; Nov 8,

■ LONDON

CONCERT Burbican Hall Tel:

44-171-6384141 Buenos Aires Philharmonic Orchestra: with conductor Garcia Navarro, pianist Bruno Leonardo Gelber and the Royal

Philharmonic Orchestra perform works by Brahms, Turina, De Falla and Ginastera; 7.30pm; Nov 7 Wigmore Hall Tel: 44-171-9352141

 Wolfgang Holzmair: recital by the baritone, accompanied by pianist Imogen Cooper. The programme includes works by Schubert, Fauré and Ravel; 7.30pm; Nov 8

Peacock Theatre Tel: 44-171-314-8800

DANCE

 2: a choreography by Edouard Lock to music by Pop and Bryars, performed by La La La Human Steps. Soloists include Louise Lecavalier, 8pm; Nov 5, 6, 7, 8 Royal Opera House - Covent Garden Tel: 44-171-2129234 The Prince of Pagodas: a choreography by Kenneth MacMillan to music by Britten, performed by the Royal Ballet.

Soloists include Darcey Bussell

and Jonathan Cope; 7.30pm; Nov ■ NEW YORK

Alice Tuliv Hali Tel: 1-212-875-5050

 Christopher Parkening, David Brandon and Jubilant Sykes: the guitarists and baritone perform works by Sanz, Praetorius, J.S. Bach, Sor, De Falla, Granados, Albéniz, Villa-Lobos, Domenia and others; 8pm; Nov 7 Avery Fisher Hall Tel: 1-212-875-5030

 National Chorale: with conductor Martin Josman perform Mozart's Requiem; 8pm; Nov 8 1-212-247-7800

 San Francisco Symphony: with conductor Michael Tilson Thomas and violinist Anne-Sophie Mutter perform works by Harrison. Penderecki and Berlioz; 8pm; Nov

Merkin Concert Hall - Abraham Goodman House Tel: 1-212-5013330 Carlo Grante: the planist

performs works by Godowsky; 8pm; Nov 7

FRANCISCO

CONCERT Louise M. Davies Symphony Hall Tel: 1-415-864-6000 Wiener Symphoniker: with conductor Rafael Frühbeck de Burgos and pianist Rudolf

Buchbinder perform works by Mozart, Beethoven and Brahms: Som: Nov 8 ■ STOCKHOLM

EXHIBITION Kungl. Akademien för de Fria

Konsterne (Royal Academy of Fine Arts) Tel: 46-8-232945 The face of the 18th century -C.A. Ehrensvärd: exhibition devoted to the draughtsman, caricaturist and writer Carl August Ehrensvärd (1745-1800). Ehrensvärd, strongly influenced by the antique, is mostly known for his landscapes and caricature

■ VALENCIA CONCERT

drawings; to Nov 10

Paleu de la Múnica Congressos Tel: 34-6-3375020 Orquesta de Valencia: with conductor Manuel Galduf, oboist Miguel Morellá, bassoonist Juan Sapiña, violinist Enrique Palomares and cellist Maria José Santapau perform works by Haydn and Bruckner; 8.15pm;

■ VIENNA DANCE

Wiener Staatsoper Tel: 43-1-514442960 Manon: a choreography by Sir

Kenneth MacMillan to music by Massenet, performed by the Wiener Staatsopemballet. Soloists include Simona Noja, Roswitha Over, Vladimir Malakhov and Tamás Solymosi; 7.30pm; Nov 7

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CNBC:

08:30 Squawk Box

10.00 European Money Wheel

Financial Times Business Tonight



sion of foreign troops".

My instinct is to agree

with the latter. The case for

intervention was strongest

two-and-a-half years ago in

Rwanda, where the then

government embarked on a

deliberate genocide of the

was overthrown by the

Tutsi-led Rwandan Patriotic

Front. The outside world

late. France then intervened

in the area still controlled

by the defeated government.

also, perhaps unintention-

ally, belping the killers to

Since then the same kill-

ers have operated from UN-

supplied refugee camps in

Zaire. Rwanda has become

the Israel of central Africa:

a state led by survivors of

genocide with an under-

standable contempt for

"world opinion" (except that

of the US), who rely on their

own military strength rather than diplomacy to

deal with hostile neighbours

and irredentist refugees on

In this analogy, Zaire is

an outsize Lebanon. Its

weak government can control neither indigenous fac-

tions nor foreign refugees.

Rwanda's new leaders, with

their fellow Tutsi who rule

Burundi, decided to take

their borders.

Edward Mortimer

Deadly confusion

Western leaders could stop the turmoil in central Africa if they were willing to signal a readiness to intervene

Two letters in The Times yesterday sum up the Eurorather than endure its conpean debate about central sequences. They have intervened to help a friendly group of "rebels", armed One, from a former British ambassador in the and trained by themselves. region, advocated military gain control of a strip of intervention in eastern land along the frontier, driv-Zaire – by whom is not

ing the refugees and guerrilentirely clear, but apparlas out of it. The human ently western countries "with African participaconsequences are horrific ~ as in Lebanon, but on a tion". The other, from a prolarger scale. fessor of politics, says that So once again there are "order can only be restored calls for "humanitarian intervention". This is an in the Great Lakes region through the emergence of oxymoron. Humanitarian effective domestic regimes action focuses purely on the which are capable of govrelief of suffering, while milerning responsibly", and itary intervention involves that this process "can only attempting to remove its be lengthened by the incur-

In this case the political aim of intervention is even less clear than usual. Some say it should organise the (presumably compulsory) return of the refugees to Rwanda; others that it should help them reach Tutsi minority, killing at safety further inside Zaire least half a million before it Yet others argue it should tiers, giving separate home-lands to the apparently did nothing until it was too irreconcilable Hutus and Tutsis - involving ethnic cleansing on an epic scale. While the international stopping the killing but

community dithers, Zaire may take action on its own

advantage of this chaos account, It is very much Africa - or all three bigger than Lebanon, and indeed than Rwanda and Burundi together. Its president may be dving of cancer in France and its regular army may be unpaid, poorly equipped and ill-disciplined. But it has a highly trained presidential guard, as well as generals and opposition leaders eager to exploit wounded national pride in their struggle for the suc-

> General Eluki Monga Aundu. the chief of staff, has publicly denounced the present government's passivity, demanding a free hand for the armed forces "to drive the invaders out of the national territory". Reports from Kinshasa allege that weapons are pouring in from France and Egypt in preparation for a large-scale air and ground attack on Rwanda within the next two or three weeks.

If that happens, the whole region will descend into a free-for-all, with the armies of several states fighting each other and mass flows of refugees in all directions. Could it be stopped? Probably yes, if one or more major powers signalled a clear intention to intervene.

If France, the UK or South

war in this century. In 1914, 1939, 1950 (Korea), 1982 (the Falklands) and 1990 (the Gulf), Britain and/or the US went to war in reaction to aggression - but only after giving the aggressor every reason to suppose they would not do so. This was because they themselves had not decided they would intervene.

issued an ultimatum to

Dwands and Zaire to respec

each others' borders or face

hostile military action, the

two governments would

almost certainly comply -

certainly if visible prepara

tions were made for such

But intervention could

not stop there. There would

have to be a demilitarised

zone along the border

policed by an international

force. The refugees would

have to be disarmed and

either resettled or repairi

ated, the leading war crimi

nals among them identified and sent to the interna-

tional tribunal in Arusha

for trial. The operation

would be neither quick no

Such an ultimatum is

most unlikely to be issued,

because none of the govern

ments concerned can pre-

dict how it will react when

things get worse. As Hugh Hanning argues

in a brilliant short books

published tomorrow, this inability to anticipate the

reaction to unpleasantness

has been a leading cause of

action.

In the cold war, by contrast, Nato made its willingness to light crystal clear, and its resolve was never

Will the west end up fighting in central Africa? If things get bad enough, I suspect we will. The tragic irony is that if only we could decide that in advance, we might not have

*Five Wars, One Cause: Why we need Peace Crimes Tribunals, Parapress

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LETTERS TO THE EDITOR.

Number One Southwark Bridge, London SE1 9HL We are keen to encourage letters from readers wound the world. Letters may be faxed to 44 171-873 5938 (please set fax to fine), canalit letters editor the com Published letters are also available on the PT web site, http://www.FT.com Translation may be available for letters written in the main international languages.

Keynes' concepts misunderstood | Naive view

From Mr Robert Solomon. Str. Michael Prowse's polemic against Keynes ("Spurning Keynes", Novem ber 4) ignores history, misrepresents the views of today's Keynesian economists, fails to do justice to Keynes' contributions to our understanding of how economies work, and is meanspirtted.

Prowse fails to note that the General Theory was published during the Great Depression when the problem was massive unemployment and the US was certeinly not constiming too much. More important, it led standing of what makes economies move as they do. The concept of aggregate demand and what influences it is at the heart of modernday thinking about the busi-

ness cycle. Prowse misrepresents economists of the Keynesian persuasion. He fails to note that, with a few exceptions, they are in the vanguard of those pressing for reduction of the budget deficit in the

US, not telling politicians "to which "advocated policies borrow and meddle". Finally, Prowse tells us that respected economists such as Paul Samuelson. ingly puts it. This formulation treats whom he mentions and labour as a mere commodity, which may be the only way

whose photograph is shown. embraced Keynes' teachings because it gave them the opportunity to save the world by entering government and managing the nation's affairs. As it happens, Samuelson has never entered government".

Robert Solomor guest scholar, The Brookings Institution, 8502 W Howell Road,

From Mr W. Stanners. Sir, Michael Prowse hits an easy target in Keynes' convoluted and often incoherent musings" which "told left-leaning academics what they wanted to hear", but seems unaware that this style was required to counter a self-serving and equally tendentious rightleaning establishment,

that would promote the flexibility of all prices including wages", as Prowse approv-

of putting it into an equation, but is obviously false. Water has never been known to complain if its abundance reduces its price to near zero, but people whose labour value drops below subsistence level will not quietly starve. Keynes noticed that labour units were also people (and also, that when they returned home they were transformed into consumers and savers). but he judged that "it is my fellow economists, not the general public, whom I must first convince". His so-called "general theory" was his convoluted but highly effective, way of reaching, outdebating, and out-jargoning

W. Stanners 49b Fen End.

this benighted audience.

Over, Cambridge, UK

Ethos key to boardroom change

From Mr Stuart Bell MP. Sir, The Confederation of British Industry, in its corporate governance report prepared for Sir Ronnie Hampel's committee, may well have rejected

suggestions that economic stakeholders should be represented in company boardrooms ("Two-tier German boards rejected", November 1), but they did not do so in the context of the policies of New Labour. Put simply, the policy of New Labour is to seek to

change the cultural ethos of companies so that they can be more inclusive and forward-looking. We do not believe legal prescription is the most useful route to achieving progress to that

On the two-tier board. New Labour has been fully aware of the CBI view for some time. We have raised the possibility of providing companies with the option, should they choose to exercise it, of adopting a two-tier board structure.

We shall study the CBI submission very carefully, as we shall study the eventual report of Sir Ronnie Hampel. They are both important contributions to the corporate governance bate, building on the reports of Cadbury and Greenbury Which we have

Stnart Bell, shadow minister for trade and corporate affairs, London SW1 GAA, UK

Restructuring challenge more complex

From Mr Chris Gensle. Sir, I agree with much of Stephen Roach's Personal View (October 22). He is quite right to argue that both Europe and Japan are very different economies and that they will not follow the

same path as the US. However, what needs more explanation is exactly how Europe will respond to the tion that the US economy has met so effectively. An

understanding of this must be based on a more sophisticated analysis of Europe against the US. It is not simply a case of how quickly this restructuring will take

Take healthcare. Europe manages to provide higherquality healthcare delivery at less than half of the cost of the inefficient US system. I argue, in my recent book After Liberalisation, that there is a limit to the

amount of deregulation that Europe can take after it has undergone the present round of restructuring it is now experiencing. This is because the social and economic fabric of Europe would tear under such a

Chris Gentie. senior consultant, The Henley Centre, 9 Bridewell Place. London EC4V 6AY, UII

wrenching experience.

of pension liability

From Mr Willem H. Buiter Sir, The Commons social security committee's report. Unfunded Pension Liabilities in the European Union, is politically naive and economically illiterate ("Pensions debt stirs Emu debate", November 1)

Many continental EU members have more generous unfunded state pension schemes than the UK. Demographic developments and disappointing productivity growth make it impossible to finance present and future benefits with existing contribution rates.

This conflict is not confined to social security, but extends to present and future taxpayers and beneficiaries of public spending and existing holders of public debt. It is a national political issue

The UK is relatively favourably positioned although the steady increase in the public debt-gross domestic product ratio indicates that the situation here too is worsening.

With or without Emu, there is no chance of the UK taxpayer picking up the tab for the continental pensioner. The Maastricht treaty explicitly forbids it.

The argument that a European Central Bank could be blackmailed into monetising the unfunded pension liabilities of our continental partners is rich, coming from a country with one of the least independent central banks in the EU and a mediocre inflation record. The euro may turn out to be softer than the D-Mark is; it will be harder than the pound.

If cash-strapped governments attempt to borrow their way out, this will raise interest rates throughout the EU. This is a consequence of financial market integration. not of Emu. The notion that the UK can insulate its real interest rates from the rest of Europe by retaining monetary autonomy is an illu-

Willem H. Buiter. professor of international macroeconomics, Austin Robinson Building. University of Cambridge,

Cambridge CB3 9DD, UK

Winterthur Group

Significant increase in profits in sight also for 1996

Belpless: the victims of western indecision

· For the 1996 business year, we are again expecting a significant double-digit growth rate in profits. The 1996 interim account shows a profit of CHF 248 million. In 1995, the annual profit amounted to CHF 419.2 million. which represented an increase in profits of 15.1%.

* For the 1996 annual account, we are also expecting considerable growth in the shareholders' equity. As against the end of last year, the shareholders' equity rose by approx. 10% to CHF 4.4 billion in the first half of 1996.

in a comparison of the half-year figures, Gross premi-

ums rose by approx, 17% to CHF 14,3 billion. In non-life insurance, this positive development is chiefly due to the acquisitions made in the previous year, in life assurance, it is ascribable to organic growth mainly in Switzerland, but also in some other European markets. Parallel to this good performance, investments have grown by approx. 16% since the middle of 1995 and now stand at CHF 78.3 bitton. Net investment income in the first half of the year indicates a very good Imancial result for the end of 1996.

Our excellent position as market leader in Switzerland Peter Späld and our strong showing as the fourth largest insurer in European business form the basis for the Winterthur

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Out of the sweetshop

After privatisation in the 1980s, many UK utilities were so seger to spend their cash on foreign ventures that they were likened by investment analysts to children in sweetshops: they bought anything they could

see – and were then sick. The privatised utilities power generators, gas and water companies - have spent an estimated £4bn on international diversification, according to Mr Bill Dale, utilities analyst at SBC Warburg, the investment bank And most of the ventures

have so far lost money. Now the utilities, which began to announce their interim results last week. want to prove they have grown up. They have started taking a more rigorous approach to operations over-seas. "There is a far more focused approach now than there ever was before," says

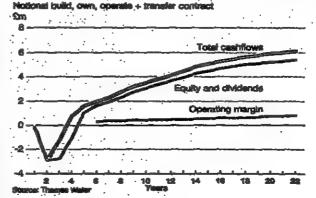
Mr Dale. In recent months some utilities have sold the worst lossmaking companies bought in the first flush of diversification. Others have pulled out of overseas competition altogether. But several have continued to expand abroad and have stepped up efforts to convince shareholders of the long-term potential of these

Executives say exposure to foreign markets is particularly important because utilities in the UK - including price controls - is making it difficult to increase profits at home, "There is no way we can effectively improve efficiency and profits in the UK forever," says Mr David Luffram, finance director at Thames Water.

is a salutary lesson in international diversification. In the four years after privatisation in 1969 Thames spent more than £120m on overseas businesses, including Utag, a German process ring company which failed to deliver expected revenues from eastern Germany following reunification. By the time Thantes

UK utilities are taking a more grown-up approach to foreign investment, says Jane Martinson

in for the long term



sold Utag and another engi-The London-based utility had already announced a £95m write-down in March, mostly to reverse its over-seas policy. Mr Luffram mistakes, instead of concentrating on its core water supply and sewerage busine overseas, "we went into design and construction and

Thames has moved away from such "non-core" busis, but it remains committed to overseas expansion. Presenting its interim results last week it emphasised the potential of six contracts it has won this year from Turkey to Australia, which work on the build, own and operate model and are managed in partnership with local companies. The group won its first such water and sewerage contract in Malaysia last September, at the start of the review which eventually led to the

fell flat on our faces".

write-down and a manage ment reshuffle. Anglian Water, which services the east of England. disclosed yesterday that it had lost 26.5m in its interna-

months of this year. It neering company last expects to continue losing month, they had made oper-money abroad until the end of the century. But Anglian is also emphasising its determination to win more overseas contracts.

Such projects may lose money at first and can be risky. But they can also yield high returns over the life of a 20-year contract. Thames believes its foreign operations could be contributing £30m or about 8 per cent of pre-tax profits by

Other groups have also been at pains to emphasise the long-term benefits of their overseas strategies. In September, National Power. the generating company which has invested more than £800m in overseas ventures in the past five years. announced that it expected to earn £30m after tax from foreign operations in this financial year. In 1997-98 it believes this will increase to 295m, or about 11 per cent of total estimated earnings. Other, smaller UK utilities

such as Southern Water and Yorkshire Water have been less successful, pulling out of most overseas work and concentrating on the home tional division in the first six taken over by Scottish the moment."

Power this summer, has emphasised its commitment to achieving cost savings in a four-year £1bn investment programme in the UK. York-shire also decided to concentrate on winning back the trust of its domestic customers after being criticised during last year's drought.

That partly reflects political pressures. Both the regulators and Labour have voiced unease at the possibility that international ventures may be subsidised by regulated domestic operations. "I am in favour of British companies operat-ing abroad," says Mr Frank Dobson, Labour's environment spokesman. "But, in the case of utilities, that must never be at the expense of the customers to whom they are monopoly

It is not surprising that UK groups look enviously at the greater freedom enjoyed by some of their foreign competitors. On a recent visit to London, Mr Gerard Mestrallet, chairman of Compagnie de Suez. a large shareholder in Belgium's Electrabel and France's Lyonnaise des Eaux, spoke enthusiastically about the value of international expansion. His company, he said, had no problem financing projects involving a profit-ability "J curve" - short term losses, followed by

escalating long-term gains. Embarrassed by their previous mistakes and shackled by political and regulatory uncertainty, the UK utilities

have a long way to go before they can expect to hear such encouraging words from their own shareholders for foreign ventures. Mr Lakis Athanasiou, a water analyst at UBS, believes the sector, in spite of its more careful approach to investing abroad, is

unlikely to win much support from the City because possible returns are so long-term. "There is a stereotypical image of disastrous diversification, but in fact this is the most promising market. Southern Water, area for these companies at

investments.

The experience of Thames

Number One Southwark Bridge, London SE1 9HL Tel: +44 171-873 3000 Telex: 922186 Fax: +44 171-407 5700 Wednesday November 6 1996

Throwing the rascals out

against Ms Benazir Bhutto's she would not go quietly. administration in Pakistan are true, she richly deserved to be stripped of office. In three short bled from crisis to crisis, while acquiring a reputation as one of the most bent administrations this notoriously corrupt country has ever seen.

Yet President Farooq Leghari deserves only two cheers for the way he has moved against her. Through his repeated warnings about corruption and his efforts to ensure the independence of the judiciary, he has tried to enhance the constitutional role of his office as a guarantor of good government. By announcing new elections in February, he has made it clear that democracy is the only satisfactory way forward.

The spag is that three months is a long time to wait for elections when Pakistan faces dire economic difficulties. Much of its \$36bn in foreign debt is short term and requires continuous refinancing. Since reserves were perilously low even before Ms Bhutto's removal, the country risks a full-scale debt crunch if

its bankers now withdraw. Confidence might have been higher if Mr Leghari had acted earlier and replaced Ms Bhutto with an interim government of technocrats, akin to that led by Mr Moeen Qureshi, the former World Bank executive, which pulled the country out of a previone crisis in 1993. As long as its mandate was limited in time, that need not, as Ms Bhutto argued it would, have been an affront to democracy.

Critical moment

\$3500

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Instead he dithered while Pakistan's finances deteriorated, the government's moral authority drained away and respect for the law diminished. By finally installing a weak caretaker government, he has: left the country vulnerable to instability at a critical moment. This would be particularly worrying if the reason for his besitation was a divided army. Without military support, the exercise could easily backfire.

If half the allegations levelled Ms Bhutto has always said that

Stability is particularly impor-tant as Indo-Pakistan relations - always a dangerous potential years her government has stum- flashpoint - are at a particularly low ebb and regional tension has been heightened by the upheaval in neighbouring

Two tasks now appear urgent. The first is to ensure that the IMF programme remains intact. It incorporates some important structural changes such as the tax on agriculture which will challenge vested interests. Banks, which have crassly lent Pakistan too much expensive short-term money, must realise that they now have more to lose than gain by pulling out. If necessary the IMF must put pres sure on them to continue refinancing their loans. It would help if Mr Leghari continues to allow a central role for the able and apolitical central bank governor, Mr Muhammed Yaqub.

Political task

The second task is political. Mr Leghari's intervention has been courageous for a man appointed by Ms Bhutto herself. All sides should now co-operate to ensure that stronger political institutions can indeed produce a stronger democracy. Ms Bhutto must accept that her chance of vindication, if there is one, will come with fresh elections. The corruption allegations against her husband and others must be rigorously pursued, but transparently and without vindictiveness. New legislation to tighten public accountability should be enacted and strictly enforced. It would be foolish to assume

that Pakistan can be cleaned up quickly. All major parties are riddled with corruption, but if Mr Leghari's move is followed through, Pakistan might finally have some prospect of electing a government capable of dealing with the urgent issues of social and industrial development. Its second half-century might then promise some achievements worthy of calebration. Its people deserve something better than

Spending the people's taxes

UK government spending next without a radical alteration of ar will be a greater proportion of national income than during the first world war. But most of it now goes on welfare rather

This was not, perhaps, the statistic which Mr John Major, the prime minister, had in mind when he said in September that there was a moral case for reducing state spending. However, it casts a curious light on the dilemma of his ministers yesterday as they struggled to control its rise for next year's

Defence spending, at about £21bn this year, is one of the few programmes to offer a chance of cuts. At 3 per cent of GDP, it is now 27 per cent less in real terms than at its peak in 1984-85, but it may still be too high given the collapse of the iron curtain. However, leaving aside the arguments about maintaining a military capability, the fact is that this is no longer where the big billions are consumed. Defence represents 7 per cent of general government expenditure and, relative to the size of the economy, it has fallen by a third compared with

its position in 1979. Some further economies may be scraped from this and from other departmental budgets. But after three years of very tight expenditure controls, more cuts have been hard to find without an explicit government decision that the state should do less. In the three big spending departments - health, education and welfare, which now account for 60 per cent of the total (50 per cent in 1979) - significant cuts are impossible in an election year and difficult thereafter.

Keeping pace

For health (16 per cent of total spending), costs will continue to rise in real terms if spending is to keep pace with new treatments and the needs of an ageing population. Health spending is now 70 per cent higher in real terms than when the Tories came to power. Despite some slight easing of pressure from demography, it is unlikely that the trend will change much ent government.

policy - as the demand yester

In education, numbers are now ineving up again. Some 200,000 additional schoolchildren in three years' time could add about \$500m to costs, unless class sizes are allowed to increase. When these children reach higher education, they will add further to cost pressures. So, although real educa tion spending has risen by a mere 30 per cent since 1979, governments will be under strong ssure to curb future growth. teenagers going to higher education has risen steenly from under 20 per cent to 30 per cent, so the presumption of free universal access, already eroded by student loans, is bound to come under further question.

Explosive growth

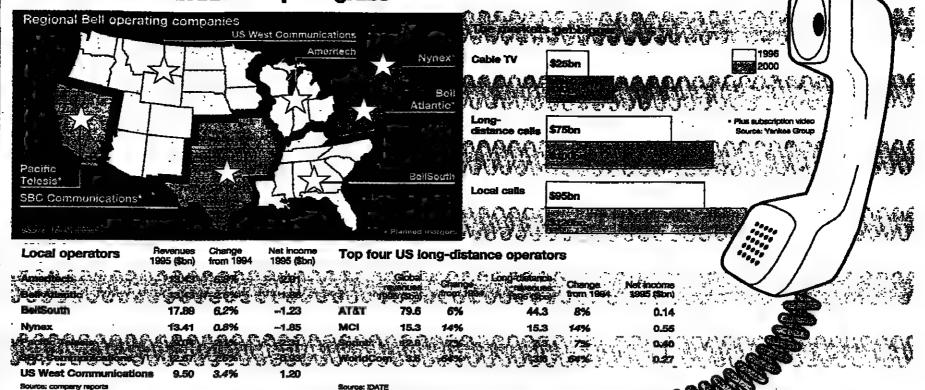
The most explosive real growth, however, has been in social security spending, up 84 per cent since 1979 and now consuming 13 per cent of national income (relatively more than all public expenditure in 1913). Falling unemployment is helping to curb growth, but unemployment benefits (excluding sickness and income support) account for less than 10 per cent of the total, compared with just under half for pensions. The government's ares to curb benefits and to ensure that benefits do not rise in real terms may therefore do little more than reduce the

growth of these transfers. More generally, present spending plans depend on a continued standstill in the publicsector pay bill and a damaging gap in public-sector investment, which the Private Finance Initistive can not fill.

As things stand, the govern ment will do well simply to hold public spending steady at about 40 per cent of GDP. Even if it succeeds in that aim, it will not be able to cut taxes significantly and still reduce the deficit as it must. Tighter targets would require a radical review of state

activities. But that will be for a different Budget, and, probably, a differ-

US telecommunications: up for grabs



Telephone turbulence

Richard Waters asks whether the revolution in the US telecoms industry will be as profitable as the dominant operators hope

wo weeks ago, in Hartford, Connecticut, the cables that deliver television signals to many of the city's homes began to carry telephone calls as well.

Meanwhile, nearly half a million Americans have signed up with AT&T to get access to the Internet, just six months after the telecommunications giant started offering the service. About the same number have

switched their long-distance telephone service to GTE, an operator until now of local telephone networks. Has the glorious future that

has long been predicted for the US's communications industries finally arrived - a time when deregulation and technological innovation will change the way homes and businesses across the country communicate? And is this the revolution for which British Telecommunications. with its plan to buy MCI, has just enrolled? If so, then it looks set to be a

pretty turbulent period. Tele-Communications Inc (TCI), the company behind the Hartford experiment, is stretched to the limit by the need to service debt. The company's share price has sagged by 35 per cent this year, as its cable systems around the country have come under competitive attack from satellite

and other television services. AT&T, which until last week was the US's only contender for giobal leadership in telecommu-nications, has suffered a setback in its own core business long-distance telephone calls. Rival carriers such as MCL along with a rash of low-cost resellers who buy calling capacity in bulk and sell it on at discounted rates. have turned up the competitive

In the midst of a restructuring that was meant to leave it ready for the next wave of competition,

little-known printing company executive as its next chairman, have contributed to a precipitate slide in its shares.

GTE has also seen its share price fall this year, as have the country's seven local telephone companies, also known as Baby Bells. Since February, when deregulation of their local monopolies was set in train by the US Telecommunications Act, the Bells' shares have lost between a fifth and a quarter of their value, while the Standard &

Poor's 500 has risen 15 per cent. This is the country that BT has chosen to enter. The hitherto separate cable-TV companies, Baby Bells and long-distance telephone carriers are about to be let loose on each others' territory, with unpredictable effects on market shares and profit margins. BT's sudden appearance on the scene has added extra spice.

Backed by BT's greater finan-cial muscle, MCI says it will be a stronger competitor, not just for AT&T but for each of the regional Bells. It is the combination of BT's strong cashflow and industry this week, and prompted a search on Wall Street for another wave of giant telecom-

munications mergers.
Shares in so-called competitive access providers - companies whose local networks already allow mainly higher-paying business customers to bypass their local Bell company - have jumped in recent days in anticipation of a new round of acquisitions by long-distance or even foreign carriers. At first glance, it is far from

clear that MCI needs either BT's capital or its experience of offering local telephone services to attack US local markets, especially since MCI is focusing mainly on serving business customers by building fibre-optic

seem very flat-footed indeed. networks in big cities. The sneak-That, and a decision to appoint a ing suspicion is that the arguing suspicion is that the arguments in favour of the BT-MCI deal are calculated to appeal mainly to US regulators, who have indicated that they will look favourably on any foreign investments that would bring greater competition to the US telecom-

munications industry. But financial strength will be vital for any company that wants to seize large shares of the various telecommunications sectors that are being opened up. This is a matter of marketing as well as capital spending at a time when profit margins will be under pressure from increased competition. The capital investments being

made in the US communications industry at the moment are huge. The local telephone companies are spending \$20bn to \$25bn a year to upgrade their networks and develop new services, says Mr Dennis Saputo of Moody's, the US credit rating agency.

wrangle continwhether local MCTs well-known eagerness for a be governed by federal or statefight that has shaken the rest of level regulation - a dispute that financial results since the spring competition in some states there seems little doubt that widespread competition for local calling will begin early next year. The cable television companies. meanwhile, are set to lift their investment to between \$5bn and \$6bn a year on such products as new set-top boxes and cable modems, which would enable

> demand or use their cable service to link to the Internet. That might be less of a drain on capital than investing in local telephone services. Speaking recently, Mr Brendan Clouston, chief executive of TCI Communications, predicted that it would cost the cable-TV company between \$200 and \$250 per home

their customers to order films on

telephone signals. "Telephony is in many ways the most capital intensive [of services], and may be one of the longest pay-back

Then there is the mobile telephone business. Telephone com-panies have paid \$18bn this year for licences from the federal government to run so-called Personal Communications Services networks, a lower-cost alternative to cellular. They are estimated to be spending at least as much again to build the infrastructure to carry the calls - indeed, this is the purpose for which Sprint has earmarked the \$4bn it has raised by selling stakes to Deutsche secom and France Télécom.

However, as MCI's recent agreement to resell mobile calling services carried by a rival company demonstrates, companies do not necessarily need to own their own physical infrastructure to offer telecommunics. tions services. Even leaving aside capital spending, developing and marketing new services can cost a huge amount of money and have a depressing effect on profits - as the mighty AT&T has telephony should proved in recent months.

The company's disappointing money behind developing local, mobile and other services, rather than purely the long-distance business, says Mr Joseph Naccio, the head of AT&T's consumer and small business operations. "We took some risks there, and some of our product lines grew slower," he says. Even before full-scale competi-

tion in the local and personal communications services busises is unleashed, the effects of this are clear: AT&T's marketing and selling expenses jumped by more than a fifth in the latest quarter. An all-out battle for market share will unleash a renewed marketing extravaganza. It will also, of course, hit profit

margins. By MCI's reckoning, competition in the long-distance

market has pushed profit margins on operating cashflow down to around 19 per cent. The comparable margin for local calling

services is 47 per cent. To slow the inevitable shaving of these margins, most big tele-communications companies are taking a similar approach. Called "bundling", it involves selling a broader array of services in packages – local, long-distance, cellu-lar and paging, for instance, all bundled together on the same bill. Besides the revenue enhancing possibilities of this approach, it may help communications companies to dispel the perception that they provide a commodity product while helping to strengthen their relationships with customers.

The average US household spends about \$75 a month on local and long-distance calling and cable television, says Mr Naccio at AT&T. "We have only a small piece of this disposable income." he adds.

There is another reason for Wall Street to feel less gloomy about the prospects for US tele communications companies: the fight for customers in the new world of US telecommunications is not a zero-sum game.

ried on the country's communications networks is rising by 30 per cent a year, says Mr Gordon Anderson, head of the Yankee Group, a telecome consulting firm. Even with the price-per-bit of information falling, talephone and television revenues are likely to grow by 12 per cent a year until the end of the decade.

This, for BT's shareholders, could be the strongest reason for investing \$20bn in the US. Whatever happens in the international calling business, Concert, the planned BT-MCI group, would have a firm foothold in the world's biggest telecommunications market at a time when various lines of business - from Internet services to local telephone calls - are opening up.

and something of an old China

figna, dulivered a faultiess. rute address in Mandarin Said one non-Mandarin

All at sea The Balife tiger economy of Estima has many friends and dpairers, not least at the ean Bank for instruction and

at it is making rather faster ress towards joining the irropean Union than previously. respected – at least according to the EBRD. the newly published sition Report for 1996, a weighty tome giving the bank's

developments in the ommunist world, Estonia as already joined the EU. Or rather, part of it has. For likine maps in the 210 page book frow Estonia's two islands. umaa and Saaremaa - which boast a splendid brewery and ome of the best yachting in the Saltic Sea – shaded brown, like BU countries, rather than post-communist green:

The bank, which prides itself on an umparalleled knowledge of the 26 post-communist countries it deals with, blames a "printer's error". Obviously the focused. stripped-down, post-Jacques

Attali bank has dispensed with propfreaders But at least it makes a change for Estonian officials who are more often to be heard ... complaining about mans which still designate their country as part of Russia.

Artless move

The mystery surrounding one of the more important Italian art thefts - the disappearence of Caravaggio's masterpiece The on - has mally been cleared up. -Francesco Marino Mannola, a

leading *majioso* now turned . informer, has revealed be stole the painting from a Palermo church in 1969 on behalf of Pipo. Calo, regarded as the unofficial surer of the Sicilian Mafia and the most refined of the osses. Giving evidence this week in

the trial of former premier Ciulio Andreotti (who is accused of links with the Mafia) he said the painting was intended for a 'special" client who Calo said would "go mad over it"... He strongly hinted he believed the Caravaggio was due for

Andreotti. The former premier ridiculed the idea, saying he had "never gone mad over anything; let alone a picture".
But what did seem credible

about the testimony of Marino Mannola was his admission that he and his accomplices had damaged The Nativity beyond repair while removing the

nor has there been a whiff of its existence on the art market.

Entry Patten

A poignant moment approaches for Chris Patten. The governor of Hong Kong - only after another round of meetings - ilies westwards again next. week for high-level talks in European capitals.

Patten will be trying to persuade French president Jacques Chirac and German chancellor Helmut Kohl that they should offer visa-free entry to holders of the new Special Administrative Region passport when Hong Kong reverts to 🕚 China next year.

But during his stop-off in Bonn, Patten will also find time to address the Konrad Adenauer foundation on matters "

It was to this audience that John Major gave his famous 'heart of Europe" speech back in

And the principal author of Major's now-ignored pledge that Britain would benceforth swim in the European mainstream? Step forward the

Strauss-loving governor.

Ginancial Times

100 years ago The United States and Cubs

New York - Mr. Lee, United States Consul at Havana. arrived here this morning. He admitted that he had come to make a report to President Cleveland on the condition of affairs in the island, but he fused to be interviewed as to the nature of the representations he was about to make. "The Evening Telegram" asserts that Mr. Lee said to a friend, "It will not sucurise me if I return to Havana on a warship". The accuracy of this statement is however, doubted. [Dalziel],

50 years ago

British Loun for Creciu A decision is expected within a few days on completing the agreement whereby Great Britain may provide Czechoslovalcia with a £2,500,000 credit for buying British surplus war material.

Dr. Augenthaler, head of

the Economic Section of the Czechoslovak Foreign Office, said in London yesterday that the loan from Britain had been negotiated long before there was any question of the United States suspending credit facilities to Czechoslovakia. He denied that surplus stores bought under the \$50,000,000 credit from the United States had been transferred to the Rumanian government.

FINANCIAL TIMES

Wednesday November 6 1996



EU companies may face monetary union tax bill

Some European companies could face unexpected tax bills after European monetary union, accountants are warn-

The tax liability may arise because the locking of ing concern that Emu could exchange rates at the start of Emu, scheduled for 1999, means companies will need to revalue long-term assets and liabilities denominated in for-

This may force some companies, particularly in Germany, to realise significant exchangerate "gains" - potentially affecting their accounts and tex liability for 1998.

Mr John Heggarty, secretary general of the Brussels-based FEE, the federation of european accountants, said: "This is a serious issue which many companies have barely considered yet - but it is only two

The federation plans to assess the scale of the problem in coming weeks. The German accountants' association has

Yeltsin

Continued from Page 1

Chernomyrdin spoke with

some of the demonstrators

gathered outside the White House, the seat of the Russian

government, and pledged to

take over for three months if

Mr Yeltsin were to die or

appeared to play down his tem-

sharply on news of the suc-

cessful surgery, with prices ris-

ing by between 1.5 percentage

points and 3 percentage points.

sin survived the post-operative

period. Russia's planned euro-bond launch could benefit

from the percuived decrease in

Bayer talks

the Agfa films business, were

due to be posted in the fourth

In the first nine months.

to DM3.7bn on sales up 7.4 per cent to DM36.3bn. Most of this

increase was because of acqui

sitions in plastics, printing

plates and fragrances. Results

were also boosted by favoura-

Mr Schneider reaffirmed a

commitment to raising the

group's operating profit mar-

gin to 15 per cent over the

next four to six years. It con-

tinued to fall far short of this

target, with a significant num-

ber of businesses still

ing losses, he said.

tax profits rose 12 per cent

quarter.

Bankers said that if Mr Yelt-

Russian bond prices railied

porary stewardship.

But the premier, who would

incapacitated.

pay their delayed salaries.

Commission will present a losses, they are not allowed to paper to European Union realise any gains until the loan states next week calling for or asset has matured. greater co-ordination over accountancy questions posed

The move comes amid growlead to competitive distortions because countries are likely to treat Emu accounting issues such as provisions made for companies' Emu-related investments - differently. Although the Commission is trying to bring European accounting standards in line with global standards. EU countries remain reluctant to

harmonise their systems. Mr Stephen Dale of Price Waterhouse in Paris said: "Bearing in mind the numbers being bandied about for the corporate Emu costs, you could get significant distortions arising from different tax

Germany is expected to be among the worst affected by potential currency changes. Although its accounting rules

By Michiyo Nakamoto

The Japanese government

agency charged with recover-

ing debts owed to failed hous-

ing loan companies, or jusen,

yesterday started bankruptcy

proceedings against an Osaka

property developer, one of the

biggest customers of the jusen.

Kosan will be Japan's second

largest since the war and is

expected to trigger the collapse

of more non-bank financial

institutions that lent heavily

to the property group. Sueno Kosan and its affiliates have

outstanding loans from the

velcomed the Housing Loan

Administration Corporation's

action, which it believes is a

necessary step to restore the credibility of Japan's financial

system. This is still burdened

by bad loans taken out by

developers to buy overvalued property at the peak of the asset price bubble in the late

Foreign investors will also

be pleased by action to clear up those bad debts, which

have not yet been made public.

The leading banks have

declared their bad debts, but

the full exposure of the less

tightly regulated non-bank

The Osaka court is expected

20

to confirm Sueno Kosan's

institutions is not clear.

Jusen of Y347bn (\$3bn).

1980s

The bankruptcy of Sueno

Meanwhile, the European visions against exchange-rate

Realising these gains could lead to a revaluation of assets and loans. For example, a 10year loan in Italian lire - or French francs - could have changed in value against the D-Mark over the loan term.

Mr Karl Lamnither at KPMG in Frankfurt said: "The logic of Germany's accounting rules is that (Emu) will have valuation implications '

Some French companies might also be affected, although French accountants said large companies tend to realise exchange-rate gains more regularly. Mr Benoit Lebrun of the Paris accountancy group Salustro says: The problem is much worse in Germany than France."

The UK, by contrast, is unlikely to be affected since British companies regularly revalue assets to take account of market movements

Change in bond rules urged,

bankruptcy within days, and

vesterday ordered its assets,

along with those of two of its

affiliates and its president, Mr

Kenichi Sueno, to be protected

weeks after the country's largest postwar bankruptcy, that

of Nichiel Finance, which went

under with Y991.4bn in liabili-

Mr Wataru Kubo, finance

minister, said the move was

crucial for recovering loans

made by the jusen, and retter-

ated that the government

would not resome troubled non-

banks. The jusen are being

bailed out with Y686bn of gov-

dent have been accused of try-

ing to hide assets by hiving

them off to separate compa-

nies. The HLAC's move was

as an attempt to prevent

However, Sueno has also

borrowed heavily from non-

banks and small institutions

which, with the company's

impending bankruptcy, are

expected to be forced to

declare their loans to the com-

This, in turn, could threaten

many smaller non-banks with-

out strong parents, according

to Mr Rokuro Kuroda, an ana-

lyst at Tokyo Shoko Research

a private research organisa-

tion. He believes 20 to 30 non-

banks could be affected.

FT WEATHER GUIDE

LOW

pany unrecoverable.

The move comes just two

from creditors.

Japan seeks \$3bn

bankruptcy of

property group

troops Bhutto's house

By Ferhan Boldvari

house arrest in Islamabad. Mr Meiraj Khalid, the new

Mr Farooq Leghari, the president, sacked Ms Bhutto early vesterday after accusing her government of corruption and misrale, ending months of growing bitterness between the two leaders.

while surrounded the prime minister's official rankdence where Ms Bhutto remained. She was unable to make telephone calls or receive visitors. Troops were also deployed around key government locations and airports.

night over the whereabouts of Mr Asif Ali Zardari, the prime minister's husband and for-Bhutto's Pakistan People's Party said he had been arrested on charges of corruption, but there was no official

In a proclamation ousting parliament, the president said government could not be carried on to accordance with the constitution, and an appeal to He added: "Public faith in the government has disappeared."

Mr Leghari, a former ally of Ms Bhutto, accused her gov-ernment of failing to stop the killings of hundreds of people at the hands of police in the

Pakistan's main opposition leader. Mr Nawaz Sharif, welcomed Ms Bhutto's downfall as "deliverance of the people". He was confident bis Pakistan next elections. The new government also received encouragement from the IMF, which said it would continue negoti-ations towards a new \$600m standby loan agreement.Mr Shahid Javed Burki, vice-president of the Latin American division at the World Bank, was expected to take over the finance ministry as adviser to

the prime minister. ket, the Karachi Stock Exchange, was closed for a public holiday yesterday, but isinessmen expected shares to rise sharply today.

shuns the reins, Page 6; Editorial Comment, Page 13

Pakistan surround

Pakistan's new government was sworn in yesterday as Ms Benazir Bhutto, the former prime minister, remained under what amounted to

interim prime minister, said the government's priority would be to hold "free, fair and impartial elections" on February 3.

Government troops mean-

Confusion continued last

the prime minister and dissolving the lower house of the electorate was necessary. integrity and honesty of the

outhern city of Karachi.

Army exercises power but

THE LEX COLUMN Destroying Valeo

Yesterday's "French solution" to the future of car parts maker Valeo produced one winner and a lot of losers. Mr Carlo De Benedetti, who is selling his 27 per cent stake in Valeo at an 11-14 per cent premium to the market price, must be rubbing his hands. He might have got more from an industrial bidder. But none of the potential candidates, such as TRW of the US or Germany's Siemens, showed any sign: of wanting to brave French political opposition.

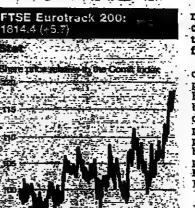
By contrast, minority shareholders in Compagnie Générale d'Indus-trie et de Participations, the family controlled holding company, should be furious. CGIP is paying a hefty premium for a 20 per cent stake in a company that is heavily exposed to the dire French car market and with little scope for improvement since it is already well-run. And because its stake does not give it control, CGIP may well have to mark it to market in its accounts bad news for a company already trading at a 50 per cent discount to net assets. Nor does the deal do much for Valeo shareholders. The chance of a takeover premium has disappeared and the promise of big-ger dividends is halanced by the prospect of future share issues. But the biggest loser is France, whose laggardly approach to shareholder value has been confirmed again.

Iri/Stet

Mr Romano Prodi, Italy's prime minister, has staked much of his credibility on privatising Stet, the state-controlled telecoms conglomerate, by next March. But this much delayed share sale is likely to be postponed yet again.

With the former Communist party, a partner in Mr Prodi's coalition, opposing the sale, it is nearly impossible to pass the necessary egislation. Last week the party tabled 5,000 amendments. If the legislation is late, there is little hope of tapping international capital markets before pest November because the calendar is crammed with planned privatisations for other

European telecoms groups. Postponing Stet's privatisation would not only put back the cre-ation of an afficient Italian palecoms market but would also be a headache for Iri, the near-bankrupt state holding group which owns 63 per cent of Stet. Italy has promised the Ruropean Commission that Irl - a generous source of subsidies to state-owned Italian industry - will



(\$10.5bit) to L4.560km by June next year. But without cash from Stet, Italy seems destined to renege on

- Still, all is not lost. There is one way the government could simultaneously meet the Commission's deadline, create an efficient telecoms market and add a few trillion lire to Treasury coffers: by buying Stet from hi and breaking it up.
Paying Irl the L12,000bn market

value of its Ster stake would cut the group's net debt to the Commissionmandated level, But because Stet's break-up value is about 25 per cent more than its market value, the L8.000bn on the deal. That should help avoid any concern in Brussels that the state was giving ir yet another subsidy. Dismembering Stat, essentially a holding company with high central overheads, would also make industrial sense.

Unfortunately, unbundling Stet is easier said than done. Not only have Stet's management and its political allies resisted past attempts to dismantle its empire but iri would fight the removal of Stet from its portfolio as that would diminish its own power base.

Breaking up Iri - whose assets include the national flag-carrier, the state-run broadcaster, Italy's motorways and most of its defence and aerospace industry - would make abundant sense. If the Treasury could get direct control of Iri's assets, it might be able to hasten their privatisation and stop the steady flow of subsidies.

Not surprisingly, this is the last thing Iri has in mind. Quite the reverse. It is lobbying the government to give it three new compa-

nies – a bank, a semiconductor company and an industrial promotion agency - to help tide it over its financial problems.

Such an injection of assets would, of course, make a mockery of European Union rules banning state aid. But Brussels, which has little credibility on policing government subsi-dies (vide Crédit Lyonnais), would probably do no more than huff and puff. By contrast, dismembering both Iri and Stet would require political courage. It will be a test of Mr Prodi's government whether it has the nerve to grasp this nettle.

Lloyds Chemists

A contested bid is a wondrous process. Though Lloyds Chemists is worth less now than it was at the start of the year, both Unichem and Gehe have renewed their previous offers of around 500p a share. And given the time and money invested by both sides, they will almost certainly force each other into another increase, which could be worth an additional 20p or so.

The higher the price, the more it favours Gehe, for two reasons. First. Unichem is already at full stretch. According to analysts, if it wins at this level Unichem will make a 12-13 per cent after tax return on its investment in Lloyds in 1998, the first full year after acquisition. That assumes, perhaps rather generously, that it will deliver more than its forecast cost savings of £20m and has no trouble disposing of Lloyds' health food and drug store chains. If those savings do not come through, or it raises its hid much higher, the return will quickly slip below Unichem's 11 per cent cost of capital and destroy shareholder value. Gehe, by contrast, has a lower cost of capital, due to its larger size and use of chesper debt to fund its offer. It can therefore pay more and still justify the deal to its own shareholders.

Second, as the two goad each other into overpaying for their target, the clean exit offered by Gehe's all-cash offer will become more and more attractive. If Lloyds investors accept Unichem's bid, which is largely in shares, they expose themserves to the risk that the deal goes wrong. There are also longer-term worries about the direction of the stock market and the prospects for pharmacies as supermarkets pile into their market.

Lex comment on M&S and Whitbroad, Page 22

それを記事というないのは、一般の意味を表現している。

100 Europe today

It will be stormy from southern Sweden to central France and from Ireland to Poland as a low pressure area moves just off southern Norway, Abundant rain and strong winds will accompany a frontal zone as it sweeps across these regions. Strong gales are expected in the warm air ahead of the front as well as over the Scottish highlands. Sunshine with afternoon temperatures between 19C and 21C will cover the liberian peninsula and most of the Black Sea countries although the Bosporus and the Crimea will have paichy cloud.

Five-day forecast Western Europe will gradually

become more settled as low pressure moves to the north-east but frequent showers mat still occur in much of the region. The Iberian Peninsula and the Black Sea area will continue sunny.

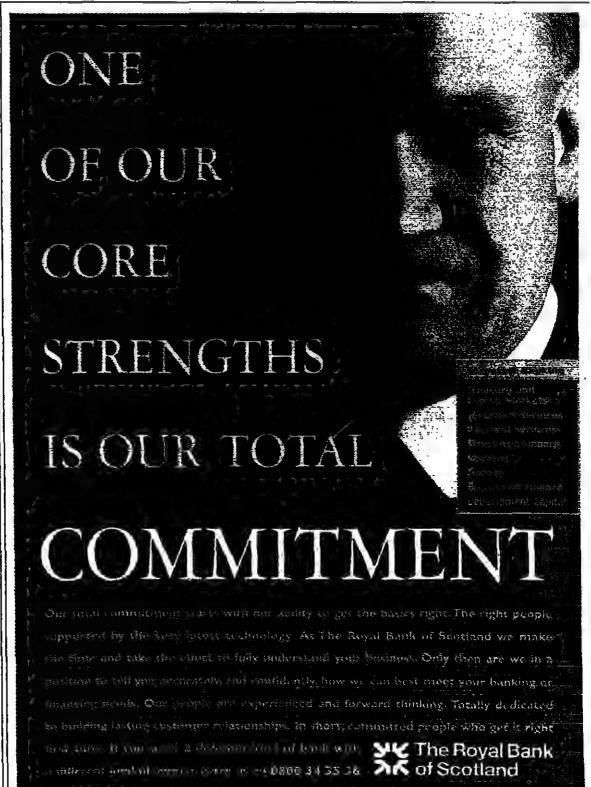
TODAY'S TEMPERATURES 21 30 21 30

Accia Algiers Amstore Athens Atlanta Bagota Bornsels Brussels Budapest C.hagen Caro Capo Town shower 24 rain 21 Our service starts long before take-off.

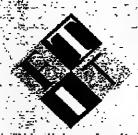
Lufthansa

Cold front ____ Wind speed in KPH Cardiff Caseblar Chicago Cologne Dakar Dallas Delhi Dublar Dublar Dublar Dublar Dublar

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Financial Times
Review of
Information
Technology



SPECIAL REPORT

This second section of the November 1996 issue of the FT-IT Review examines India's increasing influence in the global software industry.

India's software export Industry, worth more than

India's software export Indiastry, worth more than \$15n a year, has become one of the most dynamic sectors of the indian economy, fuelled by the demands of offshore clients for low-cost, high-quality products and services.



There are now more than 700 software companies in India. In the past the year, 104 companies out of the Fortune 500 outsourced their software development to India - "this clearly shows that companies can derive competitive advantage through affiances with Indian software companies," writes Mr Dewang Mehta, executive director of the National Association of Software Services, Nassoom (pictured above).

This report was written by, Peul-Taylor, IT Corresponden

Production editor: Michael Wittshire

India's Software Industry

Exports are surging ahead

India's increasingly confident software industry has a turnover of \$1.2bn, reports Paul Taylor

In little more than a decade, India has established itself as the leading offshore software development centre for scores of western companies and a rich source for the skills required to build the information technology systems of the future.

Many Indian software companies have already forged strong partnerships with their overseas and domestic customers and proved themselves able to compete in the global \$400bn software market - not just in terms of price, but on the basis of quality, innovation and technical expertise.

"Indian software companies no longer have to compete on price alone," says Mr Charles Aird, president of HCL Consulting, "We were selling a low cost product, but we don't do that anymore,"

His comments reflect the growing confidence among India's software pioneers that they have overcome the credibility hurdle and can now move up the value-chain in terms of both software services and products and compete on equal terms with the best product designers, project managers and software developers in the world

Today, Indian software companies sell their services to an expanding international customer list which now includes Japanese and South Korean clients as well as those from north America and Surope, on the basis of quality, speed, innovation and skills as well as price.

That this should have been achieved in a developing country still struggling with a wide range of infrastructure and other problems is a remarkable achievement and testament to the determination of the architects of India's software

Highlighting this, the industry grew by 51 per cent in the year to March 31, posting total turnover of Rs41.9bn or \$1.2bn, according to India's National Association of Software and Service Companies (Nasscom). Ten years ago, the industry was worth a mere Rs30m or

Strong overseas demand, coupled with government support and encouragement for the sector and the liberalisation of the domestic economy since 1991, helped India's software exports grow by 64 per cent to Rs25.2bn last year, while the emerging domestic sector grew by 56 per cent to Rs16.7bm.

Overall, between 1990 and

1995 the Indian industry, which comprises more than 700 companies, grew at a compound rate of 46 per cent, almost twice as fast as the US software sector, and now employs at least 140,000 people in India, including almost 100,000 software developers. The Indian software industry is also developing real depth. According to Nasscom more than 160 companies exported more than Rei0m last year and 41 exported more than Rs100m of software and services.

As Mr Dewang Mehta,

of dio Nasscom's executive director

"It is ideally suited to India as it demands high skilled manpower, it has no undesirable environmental side effects; it is growing rapidly, and, unlike 'capital intensive and low skilled industries', investment in this industry is not easily displaced."

driving force in the IT indus-

number of factors help explain India's soft-ware success and its ability to outshine rival off-shore software development centres including China, the Philippines and eastern Europe.

As Mr Niraj Somaiya, an

analyst with Bombay-based HG Asia, part of the ABN Amro Hoare Govett group, notes, "India scores well above other developing countries on account of having highly skilled manpower and a tremendous improvement in the hardware and communications infrastruc-

Nasscom's executive director outer which makes it highly notes, "the software industry is increasingly becoming the ware development."

ware development."

The availability of a huge pool of relatively low-cost, technically qualified software professionals, high quality levels and a time zone advantage with both Europe and the US have enabled india to exploit the rapidly expanding international market for outsourced software services including the expanding market for "remote maintenance".

Indeed, India's emergence as an important development centre in the global software industry has coincided with some fundamental changes in the way information technology is used, including the trend away from mainframe-based computing to client-server computing based on desktop personal computers and inter-networking - an area in which India, traditionally a Unix-based computing environment, has particular strengths.

 While these changes have generated strong demand for

skilled computer professionals from the IT industry itself, they have also spurred many end-users to re-write, convert and upgrade their existing software to take advantage of new technologies, such as graphical user interfaces and object-orien-

tated programming.
Since the mid-1980s however, there has been a growing shortage of software engineers in the West. This, coupled with the pronounced trend towards contractingout or "outsourcing" noncore operations among US and European corporations, has been one of the main driving forces behind the growth of the Indian indus-

try.

"Last year saw an unprecedented global outsourcing shift towards India," says Mr Dewang Mehta, Nasscom's executive director, "During the year 104 companies out of the Fortune 500 outsourced their software development to India. This clearly shows that companies can derive competitive-advantage through alliances with

Indian software companies."
Equally significantly there has been a marked shift away from on-site development services or "body-shopping" where work is undertaken at the customers' site, to offshore services.

Historically many of the 700 Indian software companies have relied upon providing "body shopping" services for clients such as on-site programming. However, according to Nasscom figures, offshore services accounted for about 40 per cent of total exports last year with on-site services contributing the remaining 60 per cent. In contrast, the percentage share of offshore services in 1990 was a mere nine per cent and on-site services accounted for the vast

bulk of exports.

Thus, an increasing proportion of the industry's revenues are being derived from fixed-price turnkey projects which are undertaken in India, some of which involve hundreds of hours of programming code, underscoring the industry's tech-

nical and managerial strengths. This shift reflects growing confidence among the software industry's overseas customers, many of whom begin their relationship with indian developers by insisting on on-site work, but once they feel comfortable about the quality and skill levels, are willing to ship their work offshore - a much more cost effective

or 1995-96 are estimate

at Rs25.2billion, while

et is valued at

Rs16.7biltion

ndia's silicon citte

Export processing zone:

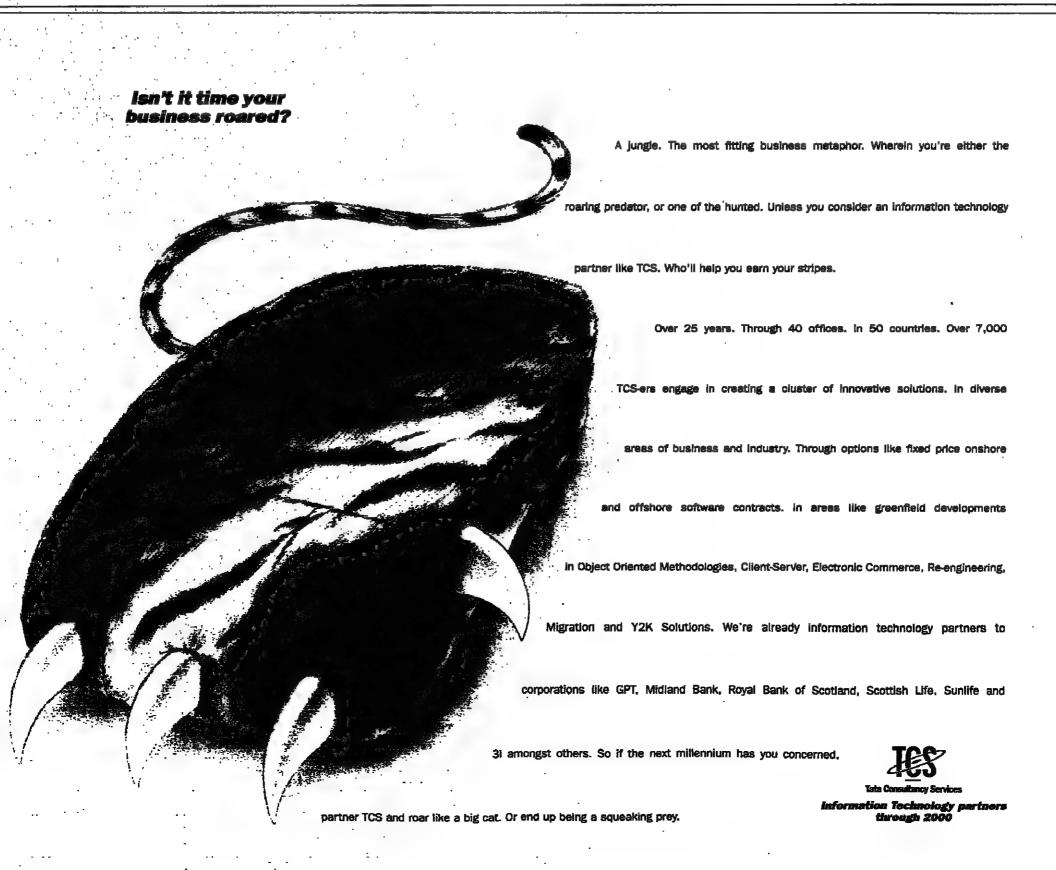
Concentration of software houses

option. "The industry has much more credibility these days," says Mr Mehta.

The move towards offshore work has been underpinned by two key factors. First, Indian software companies have adopted quality standards enthusiastically. Forty-one Indian companies already have ISO 9000 certification and another 60 companies are in the process of acquiring certification. "By the year end, we expect

more than 80 companies to have achieved ISO 9000 certification," says Mr Mehta. Highlighting the high

quality standards that are Continued on next page



For more information contact: Mr. 5 Balasubramanya, Teta Consultancy Services. 18 Grosvenor Place, Lendon SWIX 7HS, UK Tel: (0171) 235 4613, Fax: (0171) 235 3437, MCI ID: 558 8469

HOW DO YOU

STAY AHEAD

IN BUSINESS?

No shortage of entrepreneurs

Continued from page 1

schievable in India, Motorola's Bangalore software facility has obtained the US Software Engineering Institute's level 5 certification and Citicorp Information Technology Industries obtained SEI level 4 certification last year.

The leading Indian software companies are also investing heavily in training, and in leading-edge programming skills such as computer-aided software engineering, fourth generation languages, object-orientated programming, graphical-user interfaces, Java programming and increasingly Internet and electronic commerce technologies.

Second, the telecommunications infrastructure in India is being improved quickly. In particular, Videsh Sanchar Nigam VSNL), the international umications carrier, has moved quickly to provide the 64Kbps data links required by software developers to link up with their international climate.

"Currently, there are more han 400 lessed lines providing high-speed data communications links for offshore software development," says Mr Mehta. "In 1991 there vere only three."

Among the leading companies which have outsourced

AT&T. International Business Machines, Reebok, Caterollar. American Airlines. British Aerospace, General Motors and Fujitsu.

In some cases, western companies have set up their own "captive" development operations in India, in others, they have formed joint ventures with Indian partners or relied on partnership deals with indigenous Indian software developers - some of which have pioneered the concept of "virtual laboratories" - development suites dedicated exclusively to a -Werot

Another important indicator that the Indian software industry is maturing is that more research and development and software design is being done in India.

Among the multinational companies which have Indian operations, serving as software engineering and production centres for their worldwide operations, are Citicorp, ComputerVision, Verifone and Texas Instruments.

Recent additions have included Oracle, the database specialist, Novell, Motorola and Siemens all of which have established large and rapidly-growing software engineering subsidiaries in Bangalore, India's "Silicon plateau".

Similarly, a growing num-ber of the top-tier domestic

India are General Electric. Indian software developers gineering, are ideally placed are beginning to invest in to benefit from the billions R&D and the development of of dollars of work which their own software packages and services. A handful of Indian companies including Tata Consultancy Services, Infosys, Ramco and Mastek have already developed successful software packages mostly for the domestic market - and others includ-

> India has the second largest Englishspeaking scientific manpower pool after the United States

ing BFL in Bangalore are taking the first steps towards developing their own shrink-wrapped prod-

Significantly this higher risk and more costly development work is being undertaken at a time when the Indian industry appears to be on the threshold of a "Year 2000" or "Millennium bomb" bonanza.

Indian software companies, with their proven expertise in software maintenance, migration and re-en-

industry experts predict will flow from the need to rework much older software to deal with the millennium date change. Already many Indian companies have signed partnership deals with western computer services groups and some have already undertaken Year

2000 pilot programmes. India certainly bas no shortage of software entrepreneurs and innova-tors - after all, one of the country's key competitive advantage has been the sheer size, technical compe-tence and relatively low cost of its manpower base.

India has the second largest English-speaking scientific manpower pool after the US, and a sophisticated higher education system producing a steady stream of highly qualified graduates.

This pool of high-powered but low-cost manpower has helped underpin the rapid growth of the industry - and particularly exports. But most analysts agree that low costs are unlikely to provide a sustainable competitive advantage.

haps 25 per cent over the past 12 months, India is still very cost-competitive. We see the advantages of India's cheap labour being

will reach \$5bn. By then. India may have even produced its own Bill Gates and Nevertheless, despite sel-Microsoft. ary increases averaging per-

□ Exporters' innovation: Indian Software Pavilion in London this month: see

more years," said Marlin

Partners in an analysis of

the Indian industry, pub-

In the longer term, ana lysts argue that India's com-

petitive advantages will

tivity and quality. However.

the Indian industry also has

other hurdles to negotiate if

it is to reach its full poten-

In particular, infrastruc-

ture problems, particularly

extended daily power cuts

and water shortages in soft-

ware centres such as Banga-

lore, threaten to stall or cur-

indicators are positive. The

country's already a force to

be reckoned with in the

world software market

although, as Mr Ashank

Desai. Nasscom's president

notes, "we still have miles to

go. The international oppor-

tunities as well as the potential in the domestic market

By the end of the decade, the association is predicting

that the industry's revenues

are huge.

Nevertheless, most of the

tail the industry's growth.

come from ensuring produc-

lished earlier this year.

The sales potential is vast

Prospects for India's lively market has the attention of international

IT giants The domestic Indian software market has grown used to living in the shadow of the dynamic export sector, despite notching up a very respectable compound growth rate of more than 38

per cent between 1990 and signs that the tide could be turning as Indian industry and commerce begin to invest heavily in information technology to ensure that they can compete in the liberalised domestic market

and overseas. Two years ago, the growth rate in the domestic market exceeded export growth for the first time and last year domestic software sales grew by 57 per cent, only just behind the spectacular 64 per cent gain posted by

According to National Association of Software and Services Companies figures, domestic software sales - excluding software developed in-house - increased to Rs16.7bn in 1995/96 from Rs10.7bn the year before.

"One of the major reasons for increase in demand in domestic market has been the increasing maturity of end-user organisations as well as initiatives taken by Nasscom and Department of



behind the recent surge in successful partnership with cing a bonanza for big re- marketing game, he also including a sharp reduction in import duties on software down to a uniform 10 per

Coupled with rapidly growing personal sales, computer penetration - albeit from a low base - and a marked shift towards packaged software, these factors have produced a surge of interest in the domestic market and a boom in IT training for companies like NIPT and Aptech.

Multipationals

The growth and enormous potential of the domestic IT market has already caught the attention of companies like Microsoft, the world's largest software company, which has built up a nation wide network of dealerships to sell its products and is undertaking a wide range of "market development" activ-

Other multinationals targeting the growing Indian Electronics in curbing son ware piracy," says Mr Novell, Oracle and SAR, and Ashank Desai, Nasscom's German manufacturing president. But there are also resource planning specialist which has formed a highly

Systems, part of the Siemena group. "Virtually all the large multipationals in India are customers for SAP's R/3

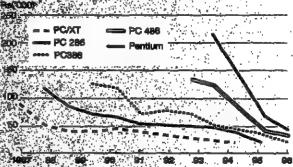
trum, general manager of Prominent local companies in the Indian market include Tata Consultancy Services, Wipro, CMC, Onward Novell. Sonata, Tata Unisys, Rolta and Mastell.

package," says Mr P Venka-

While services and turnkey projects still account for a large proportion of the overall domestic IT market, packed software is claiming a growing share. Sales of packages totalled about Rs73m, or around 45 per cent of the overall market.

Among the fastest growing market segments are the manufacturing, financial services and government fields. Sales of relational database management systems increased by 50 per cent, sales of financial accounting packages doubled and networking product sales grew by 90 per cent.

Overall, Nasscom reckuns 122 new software packages were launched by overseas companies last year - produ-



Wipro. However, domestic packaged software vendors have also performed well. According to Nasscom, 104 new products from indigenous software suppliers were launched last year. The leading domestic packaged software developers include Infosys whose rapidly expanding product portfolio includes the Nancs 2000 banking package and D-Maps, a distributed mapping packages which has also been sold successfully

Competition

athrond.

"Our biggest challenge today is how to recruit, train and retain the best and the brightest software professionals because there is tremendous competition for manpower," says Mr N.R. Narayana Murthy, Infosys' chairman and managing

While he believes Indian pete against western companies such as Microsoft in the shrink-wrapped software ket which market, which is largely a explode.

in large niche markets.

Other successful indigenous software package developers include Bombay-based Mastek whose products include the Mamis enterprise resource planning package together with life insurance and securities industry offerings, and Madras-based Ramco whos: ERP package has won crif. cal acclaim and competehead-to-head with SAP.

Companies like Infosy Mastek, Ramco and other. have proved that domesti Indian software developer: can build innovative, leading edge business software packages and their success is likely to encourage others to follow.

Today there are about 390 active companies in the domestic software market compared with just 10 five years ago. While their recent growth has been impressive. the potential remains enor mous. Foreign and domest. software companies are software vendors have unlikely to be able to com-barely begun to scratch the surface of a huge industria commercial and retail ma. ket which appears poised t



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More than 140,000 technicians in India work on contracts for overseas clients, offering advantages in cost-savings and quality of software

technical skills

I ndia's software export Bank study compared India of the most dynamic sectors of the Indian economy, fuelled by the demands of Philippines, China, Hungary offshore clients for low-cost, bigh-quality products and

"Low manpower costs, a successful track record and easier global reach are driv-ing India's software exports, which have grown some 50 per cent annually over the last five years and are expected to maintain the momentum," says Mr Aditya Srinath, an industry analyst with Bombay-based brokers SS Kantilal Ishwarlal Securi-

A few years ago, the World

19.--

 $= \times_{\mathbb{R}^{n-1}_{>0}}$

17 34 (4g)

Vast

industry has become one with a sample of seven competing countries including Ireland, Israel, Singapore, and Mexico. When compa-nies were asked to rate their preference for providing software and services, India

came top of the list. Among the reasons cited by clients were the cost and quality advantage of the Indian industry, India's strong technical skills, particularly in leading edge technologies, and infrastructure considerations such as data communications links and the establishment of Software Technology Parks.

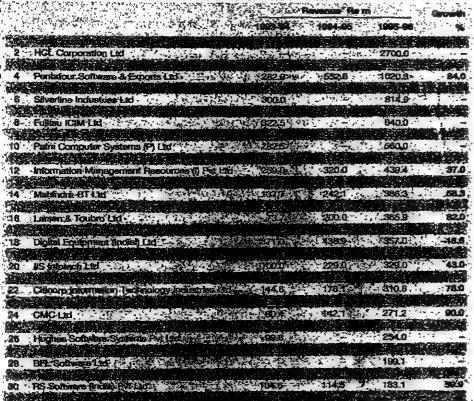
tre for multinationals include income tax exemptions and other governmentsponsored incentives for exporters, the full convertibility of the rupee and the growth of the domestic mar-

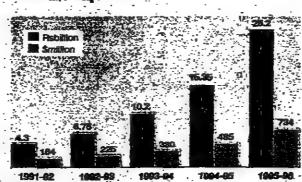
eralisation. Typically software exports for a developing country like India move through at least

ket fuelled by economic lib-

three distinct phases: • Exporting cheap labour oversees or "body shopping". This enables companies to build credibility with potential clients, and while margins in exporting cheap programmers may be low by

India's top software exporters





ucts and services on time.

Offshore software develop-

ment work now accounts for

about 40 per cent of the total

compared with less than 10

per cent at the start of the

Instead of being limited to

Indian companies are also

exports. Together, they

employ about 140,000 techni-

cal people but vary dramat-

ically in size and in struc-

Thile the Indian industry continues

"first division" tier is emerg-

ing, however. A significant

indication of this trend is

that the top 25 exporters

of overall export revenues.

restructured Tata Unisys (in

group), Silverline Industries,

Infosys Technologies.

Fujitsu-ICIM, Square-D Soft-

Systems and Satyam . Com-

to expand, a clear

clients or parents.

inpower costs mean that Indian exporters can still achieve healthy profits.

 Using cheap labour provide offshore services in the home country. This type of contract or project-based work eliminates costly travel and helps build the local

Some companies have established "software factories" or units dedicated exclusively to a single client. These high security units ensure confidentiality for long term partners and operate as extensions to in-house development teams. Satellite communications remove distance as an obstacle to doing

 Building packaged software products for export s. This is the highest margin business in the global software industry and longer term goal of many companies. However, this business requires more initial investment and is much more risky than contract work. Successful products require good market understanding and befty marketing expenses which often negate any salary advan-

Today, most Indian software exporters are still undertaking contract work this is the "bread and butter" of the industry, but most are expanding their offshore work and some have begun to produce niche products for the global market.

Significantly, the proportion of work undertaken for customers offshore rather than on-site is growing rapidly, reflecting the growing confidence of hig multipstionals in the ability of Indian-software companies to deliver high quality prodindigenous companies, while others - such as BaeHAL HCL Hewlett-Packard, and Tata Information Systems - a joint venture between Tata and IBM - are joint ventures between domestic enterprises and western companies. third group which

comprises companies such as Citicorp Information Technology Industries, Texas Instruments, Motorpla and Stemens Information Systems - and most of the more recently established software exporters are wholly-owned subsidiaries of multinationals, and they use their Indian bases as software sourcing and production centres.

supplying basic data entry and "code-bashing" services, Among this last group, a growing number of the lead-ers of the global IT industry including TI, Motorola. Oraundertaking more challenging work for their overseas cle and Novell have established research and develop-In some cases, they are designing, building and supment centres in India which are responsible for products porting products on a global or services on a worldwide basis. According to the Nasbasis. For example, Texas scom - excluding one-man Instrument's Bangalore faciloperations - there are more ity is designing complex than 360 significant particisemiconductor devices for the US electronics group. pants involved in software

Novell's fast-expanding Indian development centre specialises in three key areas, network services for Unix, network file systems and storage management

services for the US group.
"We have worldwide responsibility for these areas and operate as a logical extension of product teams in the US," says Mr Vikram Shah, managing director.

now account for 73 per cent Western computer software and services companies like Origin, a Philipe subsidiary, have established a rap-Among the leading companies identified by Nasscom are Tata Consultancy Seridly growing presence in India to help service both domestic and international vices which helped to shape this industry in its early years, the fast growing HCL clients, and at the same time group which is aiming to others have signed software licensing deals with Indian become India's first IT multinational, Wipro, Pentafour companies. Software, the recently

Other companies like Britain's Logica are building which Unisys has sold its 50 close partnerships with Indian companies. Logica per cent stake to the Tata has teamed up with HCL-Consulting for mainframe migration work and with Synectics, an innovative Bangalore-based start up which has developed a next-

IT muitinationals in India



generation banking product called Quaestor which has recently been sold to Arab Bank, the largest bank in Jordan and one of the main financial institutions in the Middle East with more than 300 branches.

40 Integrated Systems 18.6 ~

Meanwhile, some indigenous Indian companies like Bangalore-based BFL Software - recently appointed Compaq Computer's "Partner of the Year" - have developed shrink-wrapped software packages which are

then re-badged and sold by

their overseas clients. The success of this sector is reflected in the annual figures which Nasscom has prepared. According to the assoclation, the Indian software export industry grossed revenues of Rs25.2bn last year.

up from Rs15.35bn in 1994/95. Equally importantly, the industry has become an important foreign exchange earner. Last year the soft-

Continued on next page

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Tata Consultancy Services . New partnership with Microsoft

which increased to Rs5.2bn

What TCS' founders real-

ised long before most others

in India, was that technology

was going to determine the

way government and busi-

ness functioned. "It was very

simple, it was not compli-

cated at all," says Mr Faqir

Kohli, TCS deputy chairman,

a modest man who began using IBM computers in 1961

group and is now often

referred to as being the

'father' of the Indian soft-

ware industry. Since then, TCS has grown

to employ more than 6,200

from Rs3.52bn.

nent centre in Bangalore - India's main 'silicon city

BFL Software

An accolade-winner

India's youngest software start-ups having been founded in 1993, but it is also one of the fastest-growing and most dynamic and last month won an accolade from Compaq Computer, one of its main offshore clients.

The quoted company, part of the Calcutta-based Bangur Foundation, has two development centers in Banga-lore, India's Silicon City (s single campus called BFL Township is under construction 20 kilometers outside the city), and overseas offices in the US and Singapore. Last year the group, which now employs over 410 software professionals and 40 managers, reported turnover of \$7m, a figure expected to grow to \$18.5m in the current year.

BFL's employees are divided into six technology groups, the systems group which specialises in operating systems utilities, device drivers and test suite development; the networking group; the re-engineering group which provides downsizing services, migration services and Year 2000 solu-

server group; the Tandem group and a new unit called the current and emerging technologies group which handles Windows projects, object orientated design and programming, multimedia and Internet hosted applica-

Among the group's main customers are Astra, the Swedish pharmaceuticals group, the Central bank of Nigerla, and Comshare. BFL has also set up a dedicated development centre for FedEx Logistics, built a video-conferencing system for Hyundai Electronics of Korea, and developed PC software packages for Micro-help the US-based PC software group whose products include 'Zip It.'

BFL is considering alternative strategies for developing its own shrink-wrapped products business - perhaps in conjunction with marketing partners. "As a first step we have signed an agreement with Microhelp to market their products in India," says Mr B V Venkatesh, president and chief execu-

a half years ago when BFL set up a dedicated unit for the world's largest PC manufacturer staffed by 70 software engineers - there are another 15 BFL employees in Compaq's Houston headquarters.

Among the services pro-vided for Compaq. BFL maintains the US computer group's World Wide Web site in Java and has been asked to develop internet software for the company. "These are leading-edge projects and give a great deal of satisfaction to software developers." notes Mr B G Balakrishna. head of the group's international operations. Reflecting this BFL has an attrition rate of around 12 per cent about half the industry aver-

The group has also set up a special unit to deal with Year 2000 projects and completed three pilot projects for three US-based Year 2000 customers in the financial services sector. In total, the group has undertaken more than 75 projects in 10 countries over the past three ears and intends to con-

India's largest IT organisation

Nadar, charismatic chairman, has set his sights on turning the group he helped found in 1976 into India's first infor-mation technology multinational by the end of the

Already, HCL ranks as india's largest IT group with revenues of \$500m in the latest financial year, several publicly traded subsidiaries - most of which are market leaders in their fields - and a string of important international joint ventures and partnerships.

Nadar, now aged 50, epitomises india's new bread of IT entrepreneurs. He moved to Delhi from his native Tamil Nadu in 1968 to work as an electrical engineer for DCM, an Indian conglomerate, where he rose to become marketing manager of the data products division.

Hindustan Computers Ltd was set up by Nadar and five colleagues to manufacture office products such as copiers. Since then, however, the group has mushroomed into a broad-based IT conglomerate with global ambitions. Among HCL's main busi-

Shiv Nader, HCL's cheirmen, epitomises India's new bread of IT Hewlett-Packard company and HCL Frontline, market leaders in India's fast growing computer hardware business, NIT, one of the coun-

on-site and offshore software development projects for customers around the globe and ranks as a top-ten software exporter in its own Aside from running more than 150 training centres across India, NIIT also devel-

try's leading IT training

companies, and HCL Con-sulting which undertakes

elsewhere and develops software for overseas clients including Sun Microsystems, Sears, Robebuck & Co and

the world's largest software

company, announced a new

strategic alliance with Tata

Consultancy Services under

which the Bombay-based

group will provide software

development, consultancy

and value-added services for

Microsoft's Windows NT

operating system and its

The partnership - the lat-

est in a string of alliances

with international partners

largest software company

and the one which perhaps

more than any other, has helped establish India's rep-

utation for quality software

The group, which was

founded in 1969, reported software professionals and pre-tax profits of Rs1.29m in has probably trained more

development and services.

is a tribute to TCS, India's

BackOffice software

Overall, about 77 per cent of the group's revenues come from computers and software - its hardware offerings range from high powered servers down to its Busy Bee range of home personal computers, priced from just Rs 20,000.

HCL Hewlett-Packard, a joint venture formed in the early 1990s after the Indian ops and sells educational government began the eco-

gramme, has grown rapidly into the India's premier IT organisation and the group, which employs more than 7,500 people - more than half in software and customer-services engineering – has also been broadening its product portfolio and geographic reach through a series of recently announced joint ventures with General Instrument in cable TV equipment; Deluxe, a leader in the US integrated payment systems market; James Martin for Year 2000 solutions; and Perot Systems in computer services and outsourcing, which will focus on opportunities in the Asia Pacific region.

There are a myriad business opportunities in the IT area in the Asia Pacific region," says Mr Nadar. "We expect continued growth and modernisation in finance and banking, utilities, energy, telecommunica-

tions, transportation, healthcare and manufacturing." Other allies include Microsoft and Britain's Logica which HCL-Consulting has eamed up with to provide

migration services. Outside India, the group has an established presence in 15 countries. "We realised early on that we needed to giobalise the business," says

Mr Nidar Will Mr Nadar and HCL realize their objectives? Most analysts have no doubts that they will. As HCL's chairman notes: "There is a kind of aggressiveness that runs

Strategic alliance Eight weeks ago. Microsoft, the year to March 31 com- than 10,000 others, many of pared with Rs1.01bn the pre- whom now run other Indian

vious year, on revenues software companies. From the outset, TCS recognised that its future lay in software and IT consultancy services, but it needed to acquire technology skills if it was to deliver software products and services to the domestic market. "That is where our venture in exports started," says Mr Robli.

One of the group's first domestic projects was in when he was at the Tata banking. "We worked with a bank and discovered they were in arrears by months and years, we cut the areas to about two or three weeks, we couldn't reduce the arrears any further because the entries were still coming by the post, there was no networking then."

Subsequently installed the system in 49 banks in India, "we learned about re-usability long before anyone else."

The first overseas work that TCS did was for Burroughs, taking a hospital management system and converting it from one platform to another. "It was worth \$35,000, but we didn't have a Burroughs machine, so we wrote the code for an ICL machine and then developed a filter from ICL to

Burroughs." Ever since then, TCS has prided itself on being one step ahead of its rivals with new technologies - for example, it is investing heavily in internet technolo-

Mr Kohli insists that the focus of the group will remain software. Currently exports account for just over 80 per cent of revenues and grew at 48 per cent last year to Rs4.2bn while domestic earnings grew by 88 per cent to Rs939m. Over half the export revenues come from onsite projects, and the US market accounts for about 50 percent of total exports.

TCS is also strong in the packaged software segment, both as a distributor for Oracle, Avalon, Lotus, Unigraphics, and SAS and with its own products including E.X. RTwo, Success Plannedi, and ISBS, a banking package now installed at 500 sites.

The group has recently signed a licensing agreement with Britain's Business Objects group which plans to sail a new hanking package developed by TCS in the international markets.

The Indian group has also renewed its partnership with IBM's Lotus unit for Notes



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diverse sector

Software exports . A key earner of foreign exchange in India's economy

Continued from page 3

ware export industry brought in foreign exchange earnings of \$734m and, as Mr Dewang Mehta, executive director of Nasacom, notes, "has emerged as one of the highest net foreign exchange earners in the Indian econ-

Indigenous Indian companies, led by industry veterans such as TCS, IIS Infotech and PCL Mindware, are also expanding their international presence, setting up offices in the US, Britain, continental Europe and now in Asia and the Far East for example Square D has set up a Japanese sales office and has a team of Japanes speakers in its Madras facilities dedicated to translating

project work.
While the main objective of these overseas offices is to win new business and build relationships with offshore clients, at least one Indian company, ION Information Technologies, has taken a different approach setting up a team of project managers and software engineers in the Thames valley, "to ensure project manage and control is retained in the UK to reflect customer

The Indian software export industry is also extremely diverse - in terms of size, skill-sets and geography. Last year, more than 160 companies exported over this category five years ago. Similarly, the number of Indian companies with high-speed 64Kbps satellite datacommunication links a key requirement for undertaking volume offshore work - has mushroomed from just five companies, four years ago, to more than 250 today. As Mr Iain Allison of Bombay-based Marlin Partners noted in a recent report on

with just 14 companies in

the sector: "American corporates have been the main employers of this industry and have been highly influential in determining its shape and the nature of its Communications

"Improvements in the tele-

com infrastructure have meant that the United States and other developed markets are on India's doorstep and not on the other side of the globe. No other Indian industry has these factors favouring it." In terms of markets, the

US continues to top the list. According to Nasscom, India exported software worth In other words, software exports to the US grew by almost 60 per cent.

"This quantum of software exports to the US was possible due to successful lobbying efforts by Nasscom in

But while US companies have been in the vanguard in terms of exploiting the software development opportunities that India presents, European and Japanese companies are beginning to realise that outsourcing to India can help them maintain their competitive edge, accelerate time to market and reduce costs. Among the recent new

entrants, UK-based financial services groups are showing particular interest in India. For example, Churchill Insurance, one of the UK's leading direct motor and home insurers, established a software development subsidiary in India earlier this year. The new unit will undertake software development work in an Oracle Unix environment, and provide consultancy services to Profit margins its parent and other group companies in the specialist fields of very large databases, performance tuning, hardware sizing and configu-

ration. Nasscom has recently launched Phase II of Project Niesa (Nasscom's India-Eu-Rs14.5bn to the US last year. rope Software Alliance) to establish joint ventures and strategic alliances between companies in India and the European Union. Within 15 months of the launch of the initial phase, 11 joint ventures between Indian and partially solving visa and European companies were

related issues," claims Mr set up. Looking ahead, most Mehta. set up. Looking ahead, most analysts believe the prospects for India's software exporters remain good. With relatively low software development costs and 100 per cent income tax exemption on software exports, the sector has also been very profitable so far.

> Both operating margins and return on capital employed have averaged about 30 per cent across the sector, according to SSKI Securities, making the sector's leaders attractive investments.

> Nevertheless, there is a growing acceptance that although India's cost advantages will reduce over time. For this reason, most Indian software exporters are looking to move further up the value chain.

The current export mix has been likened to a commodity business - standardised software packages, the most profitable segment of the software market, only account for 10 per cent of Indian software exports.

"With increased competition and higher costs, margins will fall over time, says of Mr Srinath of SSKI Securities. To offset this, he - like most analysts believes Indian companies will need to develop products to sustain growth in the

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The Year 2000 problem . Providing solutions callid prove to be a bonanza for frida scottware industry Spectre of the millennium

Fortunes await the software companies with the resources available to deal with the so-called 'millennium bomb'

he "Year 2000 prob- already at risk. lem or the "Millennium Bomb" threatens to disrupt information technology systems throughout the world - systems based on two-digit date fields and unable to deal with the date change on January 1 2000 unless huge sums are spent

to correct the problem.

Researchers at the Gartner Group have estimated that it could cost an astonishing \$600bn to address the millennium problem, but time, or rather the lack of it, could pose an even greater challenge. What is more, the human resources needed to quantify, plan and execute software changes are already in short supply.

Gartner has estimated that 90 per cent of business applications, if not corrected will fail by 1999 and 20 per cent, comprising applications such as long term sureties or

The time

1000 Fells

iris... igg

For Indian software companies, rich in relatively low

cost skilled manpower and with a proven track record in software migration and re-engineering, the millennium problem could prove to be a bonanza.

Already most of the leading offshore software development companies have set up dedicated Year 2000 units and some have signed partnership deals with US and European tool vendors, computer services organisations and consultancies.

Resources

"Some external service providers are moving ahead to further relationships with various offshore software vendors, particularly in India, to ensure they have the resources to put against this issue," noted Gartner insurance policies, are analysis in a report pub-

lished in July. "The recently announced joint venture Luxembourg. between HCL and James Martin is one such exam-

"The millennium bug means tremendous opportunities for Indian software companies," says Mr Dewang Mehta, executive director of the National Association of Software and Services Companies. "Many Indian companies have already taken this challenge and see it as a major opportunity and have specialised in providing solutions, not only through products, but also through customised software development capa-

Nasscom believes Indian software companies could harvest at least \$5bn of millennium work and has formed a special interest group on Year 2000 issues comprising more than 50 Indian software companies which either have tools or are providing solutions for the problem. As part of its efforts to bring Year 2000 to India, Nasscom is holding a series of seminars - the first

one took place last month in leveraging existing project

However, some of the leading Indian software companies are already warning that prices for Year 2000 contract work are rising from a base rate of around 25 cents or 30 cents per line of code.

"We are under increasing pressure to sign fixed price deals," says one senior Indian Year 2000 expert.

Cost-savings

Among Indian companies with dedicated Year 2000 programmes, the HCL Group's joint venture with James Martin, the US-based service provider, combines what Gartner describes as "the leading redevelopment and Year 2000 solutions methodology" (The Systems Redevelopment Methodology) with HCL's "software factories" aimed at reducing project time and cutting project costs

Nearly 3,200 of HCL's 9,000 consultants and developers could be involved in the toint venture and by using HCL's the methodology and

management skills in both parent companies, HCL James Martin should be able to execute between 30 and 40 Year 2000 projects concurrently, according to Mr Ashok Jain, chief executive

of HCL James Martin. "The cost-savings for these projects, if conducted offshore, will range from 30 per cent to 60 per cent less than competitive offerings that do not include offshore services," say the Gartner ana-

Among other leading Indian companies offering Year 2000 services, Delhibased IIS Infotech (see report, page 6) has developed a packaged solution called IIS 2000 which comprises a pro-prietary methodology and tools to provide a comprehensive solution to the century date change problem. Currently, the company has a team of 18 working on

the project, a number which Mr Saurabh Srivastava, IIS managing director, expects rise to about 150. to

Many opportunities for joint ventures

There is no doubt that India has a huge fund of scientific and educational expertise?

s UK Minister for Science and Technology, I am well aware of India's emergence as a world class supplier in the global information industry. My visit last year helped pave the way to an agreement on closer science and technology links between our two

When I accepted an invitetion to address the World Economic Forum in Delhi in October, I saw an ideal opportunity to lead a high makes much in Indian comprofile business delegation mercial life familiar to Brit-

India's 'Silicon Valley' to ich business explore how British companies could enhance their presence in this exciting market. There is no doubt that India has a huge fund of scientific and educational moder tase

I particularly wanted to find out more about the international corporations established in Bangalore, where much of new software development takes place.

Expertise

I also wanted to discover how British companies could share expertise and how we could co-operate for mutual benefit. India is an obvious partner for British companies - our shared history

I was glad to see included

in my programme a call on BAe-HAL, a joint venture between British Aerospace and Hindustan Aeronautics. Established in 1998, this company concentrates on realtime software including applications for air traffic management and runs a database for British Airways' Frequent Flyer pro-

In the wider development of successful international co-operative ventures, western partners will look increasingly to the Indian Government for open and liberalised markets.

In the 1990s, India has grown twice as fast in the nware sector as the US did in the 1980s. A compounded growth of more than 40 per impressive \$1bn, with half of production devoted to

While growth in the software sector can be expected. to continue, India still has a good way to go before her communications infrastructure is the equal the Asia average. Around £30bn to £40bn of investment is needed to install the further 50-60m telephone lines needed to reach five per cent of the population.

Co-operation

How can British compames find out more about the dynamic software sector? I asked to hear more about 3SE, an Indian company established two years ago,

entrants to the market to pick their way through the

licensing requirements. I am in no doubt that British companies must look more closely at opportunities in the Indian software mar-

The UK's Department of Trade and Industry - and the Foreign Office - have a wealth of experience and are ready to help. We must not let the exciting opportunity of developing Indian mar-

cent is axiding. The value of out of a venture between the the industry is now an European Union and the European Union and the Indian government - a mission to promote co-operation. in software between European and Indian companies. achieved through matchmaking from its exhaustive database and helping new

minefield of regulations and Electronics. "The department officers

The association had three

A very clear objective

any trade associations fail in their mission because they fragment and lose sight of their objectives, or cling to protectionist arguments in the face of rising competition. But for the Delhi-based National Association of Software and Service Companies (Nasscom), the mission has remained clear - to act as a catalyst for the growth of the software industry.

Significantly, the Association's mission statement did not mention 'Indian' industry, and the association has embraced and campaigned for free trade ever since.

Nasscom's membership which has grown to over 400 and represents 96 per cent of the revenues of the industry, not only includes all the largest Indian software companies, but also most of the multinationals involved in the Indian industry.

"We do not distinguish between companies owned by Indians, owned by a mul-tinational or owned by anybody else," says Mr Dewang Mehta, (see picture, page one), who became Nasscom's executive director in 1991.

"We do not believe to protectionism, and we have a very global outlook - that has been one of the reasons for our success in establishing ties with various other associations in other countries," he says. "We do not believe in only exports, for example. We believe equally in imports: it is a two-way

The association was formed in New Delhi in July 1988 although its origins date back to 1987, and the first software seminars held in US cities by eight or nine Indian software company chief executives in association with the Department of

and the chief executives felt that it was important to have an organisation which would keep on doing these activities and more importantly, an association where they could share their expe-

main objectives. First, to lobby the Indian government



India's software industry has a global outlook

to make its policies "more software-friendly", mainly in the areas of tariffs, taxes and public procurement. Second, to market the Indian software industry both in India and overseas and third, to campaign against piracy.

In the first two areas in particular, Nasscom has been remarkably successful. The industry has won tax concessions for exports and import duties on software bave been reduced dramatically - from 270 per cent in 1988 to 10 per cent today. "We believe if we cannot compete with the global software industry in our own country, then we should close down," says Mr Mehta.

Nasscom was also instrumental in encouraging the establishment of India's 10 software technology parks where small and mediumsized companies can set up software in our own counoperations quickly. The try".

Association has also lobbied successfully overseas, particularly in the US over visa and other issue Under Mr Mehta's energetic leadership, the associa-

marketing activities holding

about 15 seminars a year in

Europe, Japan, Australia, South Africa and the US. Since 1991 the association has also held domestic exhibitions culminating this year in Bombay where a football stadium was converted into the largest software exhibi-

region attended by about 300,000 visitors. Next month, Nasscom will hold an even larger exhibition in Delhi, together with the Comdex fair organisers. dex', the exhibition is aimed, "at raising the awareness of

■ 'SoftDev 96' in London

Indian Software Pavilion

new initiative at SoftDev'96 at London's being held on November 27 Olympia this month will be the Indian Software Pavilion, sponsored by the Financial Times. This event brings together some of systems, the Internet and India's leading software the World Wide Web and

development companies. tive director of Nasscom, will bring the keynote speech for a two-day seminar programme presented

side WebDev 96. The two events focus on software development for corporate includes three high-level conferences and exhibitions.

For SoftDev details, call Jon Howell at Interactive Group, 44 (0)181 541 5040: the e-mail address is:

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M Software piracy

A call for tougher measures

Despite recent measures to curb sales in illegal software, piracy is endemic

t the bottom of Bri-Bangalore's young and rapidly growing population of software programmers, are four small shops, each not much larger than a US-style walk-in cupboard.

India's expanding offshore gade Computer is selling a software development industry - yet, even here, software piracy thrives. Each of the four shops sells CD- India in spite of valiant Roms packed full with attempts by the National pirated copies of the latest games and business applications software from leading companies including Micro- ernment to crack down on

soft, Novell, Symantec, Lotus and Adobe.

Most of the pirated software appears to have originated in China. Rs 1,500 buys 'Solid Gold, Vol 5', a disc with 50 software titles on it, including most of Microsoft's applications, gade Road, one of the software development and favourite hangouts of operating system programmes from The Computer Shop. Judging by the sleeves.

software development packages, including the latest Java development kits, are Bangalore is the centre of big sellers. Next door, Bribeta version of the Encyclopedia Britannica for Rs 800. Similar stores exist over Association of Software and Service Companies (Nasscom) and the Indian gov-

Surveys by independent agencies suggest that between 60 per cent and 70 per cent of computer users in India use some pirated software. And a report by Nasscom estimated that the industry lost about \$75m through software piracy last year. However, while most industry executives agree that piracy rates are declining, most also contend that piracy is endemic, at least

maller companies, first time computer users and some software developers themselves are an anti-piracy hotline which among those who use pirated software, particu-larly application tools and system software. "I would estimate that for every one package of soft-

in some market segments.

must be about nine instances of piracy," Mr L C Singh senior vice president of Tata Consultancy Services told the Economic Times newspaper. Neverthetences for the pirates. less, Nasscom, which spearheaded the campaign against software piracy, has made some headway. Last year, India's new Copyright Act - acknowledged to be one of the toughest in the

with a prison sentence and provides information on the legal use of software and investigates reports of susted incidents of piracy. In the first 15 months, the hotline received more than ware legally bought, there 6,000 calls. Following a

series of raids, facilitated by the Business Software Alli ance and Nasscom, several high-profile court cases have resulted in prison sen-

At the same time, the gradual reduction of import duties on imported software - duties now stand at 10 per cent - has helped make legal software more affordable, although Indians still complain that the cost of imported software is still ahout 25 or 30 per cent more than abroad.

While software piracy is seen as mainly affecting imported packages at pre ent, it could also stifle the eventual growth of a domes tic packaged software industry. In order to address this issue, most industry executives believe more effective enforcement of the current

ComputerVision • Case study in software pioneering

Expanding operations

The time difference means round-the-clock engineering is possible

ComputerVision, the US computer-aided design (Cad) software group, is expanding its operations in India by moving into a brand new state-of-the-art development facility in Pune which will

open early next year.
The US group has pioneered an architecture called electronic product definition (EPD) which redefines the way consumer goods, ford, Massachusetts and San

engines, cars, ships and air-craft will be designed in the twenty-first century.

EPD aims to replace expensive time-consuming prototyping methods with an integrated series of applications running on a variety of platforms and enterprisewide data management

US links

The Pune facility, ComputerVision's only R&D centre outside of the US, will employ 300 software developers and will be fully integrated with centres in Bed-

via a 128Kb backbone net-work to the Bedford and San Diego facilities, as well as the group's sales and service operations around the world. The time difference between US and India means that round-the-clock engineering is possible, thereby

substantial margin. The group's international customers include Fiat, Peugeot, BMW. Mercedes-Benz, Rolls-Royce, Lucas Aerospace, the Rover group. British Telecom, Lockheed Martin and customers in India like TVS Suzuki and Godrej GE Appliances.

improving productivity by a

Rolfa India . Award winner in CAD software

A winner abroad The company

now ranks among the world's top conversion vendors

Bombay-based Rolta India has carved out a niche in India as a cad/cam (computer aided design/computer aided manufacturing) specialist and has won a number of prestigious contracts including what it claims is the largest software services

export order. The company which works closely with both Intergraph and AT&T in the US and Rolta International, its US subsidiary, recently won a Rs1bn contract to provide AM/FM and CAD Conversion Service for the Saudi Arabian posts, telegraphs and telecommunications minis-

AT&T was awarded a \$4bn contract to install an additional 1.5m telephone lines,

effectively doubling the size of the existing Saudi telecommunications network. In addition 200,000 cellular telephone lines will also be provided under the main con-

Contract

Intergraph have been awarded a contract by AT&T to provide workstations running Microsoft Windows NT, 14 servers and facilities rulebased application model management environment (Framme) software along with consulting and CAD Conversion Services.

Intergraph, in turn, bas awarded a contract to Rolta to provide the CAD conversion services which include creation of a digital data base from 30,000 paper and mylar documents into their

Framme environment. Instead of having to search through a filing cabinet for information, the new system

will enable engineers in the subscription and business offices of Saudi Telecom to access digital records and quickly determine the available resources. In the past, they had to rely on paper based records. The project will also include 40,000 building drawings.

This contract is to be completed in a period of 5 years and execution has already

With this order, following closely on the heels of a Rs80m order from Hong Kong Telecom, Rolta has been firmly established in the world of CAD Conversion Services and now ranks among the top conversion vendors the world," says Mr Kamal K. Singh, chairman

In total, Rolta International has won orders worth more than Rsl.2bn from varlous telephone and power utilities in US. Middle East, Far East and New Zealand

East meets West to mutual benefit

ment jargon.

PCS points to its relationship with Avis Europe, Europe's largest car hire firm, as on example of how large multinational companies are responding to changed competitive environments by building alli-

ances and partnerships. Wall. Avis has expanded rapments for quick response tilly to establish a presence and high quality, PCS has in the emerging eastern set up an offshore develop-

lobalisation, says European markets, It saw keep pace with business initlatives, Avis needed to beef

FCS and Avis . Example of an international pertnership

up its IT support. In order to achieve this, Avis selected PCL, India's 30th largest software group, as a partner in 1994 and now views the Indian group as virtually an extension of its

own IT operations. To meet the Avis requirement centre in Bombay through a 64Kbps satellite link into the Avis wide area

Support team

PCS began by sending analysts to Avis to learn about its business. At the same time, it set up the Bombay facility for the offshore support team. Today, a team of 30 professionals support a wide range of development

mates it has delivered over 60 man-years of effort. Among the projects and work undertaken, the PCS team has delivered software

world - came into effect.

The legislation includes a

new computer software

piracy offence punishable

com has also set up

heavy fines.

enhancements to support new business initiatives, adapted software to comply with specific country laws, provided national language support, migrated software "front-ends" and provided Avis with quick prototyping and pre-sales support.

Among specific projects PCS has developed a self

and demonstration software for exhibitions. More generally. PCS claims the partnership has enabled Avis to deliver a quick response to its own customers and meet its own business objectives. "With a resourceful offshore partner, Avis can now

concentrate on its core business and compete more effectively in the marketplace, says PCS, which has also set up a Triton customisation center for Baan, the Dutch enterprise resource planning

■ CITIL: Producer of MicroBenker softwere packages

Initiative pays off

Banks in 35 countries have installed the company's

software packages

In the early 1990s when almost the whole of the Indian software industry was concentrating on the software services market. one pioneering company took the bold initiative of venturing into the packaged

software vertical market CITIL, the Bombay-based software development company, owned by Citicorp. launched the first version of its MicroBanker software in 1991 targeting the international banking community and competing directly with established vendors such as Britain's ACT Kindle and

MKI. Over the past five years, MicroBanker has achieved an enviable reputation and

was rated as the top-selling integrated banking software suite in 1995 by one Londonbased trade magazine. In total, 62 banks spread

throughout 35 countries have installed the package a significant success for a "Made in India" software

New customers

Among the recent customers for the product are HDFC Bank in Bombay, which is using the package in 18 of its its commitment to continubranches.

Finance Bank of Zambia, which chose MicroBanker for its 35-branch network in Zambia, and its three overseas branches.

where enhancements are carried out and where worldwide customers can receive support.

in addition, CITIL has set up local support centres in six overseas countries.

MicroBanker is currently
in its release 9.2 version and

the product has built-in interfaces to CITIL's other software products. These include MoneyMaker, a dealing room package, and Finware for retail banking, plus a customer access system and an electronic banking solution for corporate cus-

The Indian group believes ous improvement in the software engineering process has played a pivotal role in quality packaged products

The company has adopted 24-hour, seven-days-a-week cent of the world's software companies.

PCS Industries, the information technology as equipped with a PC network two years the company esti-Bombay-based group, an important component of built around a Sun Spare its strategy. In particular, to server, which is connected

is no longer mere manage-

Since the fall of the Berlin

The millennium bomb'

Big opportunity

Continued from page 5:

Although IIS already has its own Year 2000 tools, the group has also announced a partnership with Viasoft, one of the leading US-based tool vendors. "We are happy to work with any tool-provider as contractors or subcontractors," says Mr Srivas-

Like other Indian software companies, IIS sees the Year 2000 problems as an opportunity to grow the business and form new customer contacts. But Mr Srivastava also warms that those companies could find their existing business squeezed as their overseas customers switch spending to urgent millennium work.

In Bangalore, Infosys, another leading Indian software group, already has 100 people working on Year 2000 projects. "This is not really a complex problem," says Mr D.N. Prahlad, senior vice president, "but this is a manngement problem because of the volume of code that has

to be scanned." He likens the problem to a "massive maintenance project" - something Infosys and many other Indian companies are very familiar with.

Infosys has defined a three-part Year 2000 package comprising identification of the problem, correction using automated tools as far as possible and testing. infosvs has already completed projects involving between 4m and 5m lines of code for two companies and has several other deals in the pipeline.

Like many other Indian plans to use the addition revenues generated by its Year 2000 work to fund an expanded research and development programme and extend its push into higher value

added products and services. Time may be running out to sign up with India's leading offshore service companies for Year 2000 services, but at least as Mr Prahlad quips, "we have an extra two days because January 1 2000 is a Saturday.

His infotech . Delhi-based software specialist

Successful track record

The company has broadened its product offerings and relationships from modest beginnings

Along with many other large companies, Britain's North West Water was cautious and conservative in its approach to choosing soft-

ware suppliers. But the task the water utility faced in upgrading and enhancing the company's works management system and other operations was immense. North West therefore decided that it would have to look offshore for help.

Top exporter

After a detailed and comprehensive search and review in 1992. North West chose IIS Infotech, a well-established Delhi-based group which employs about 400 software professionals and is among the top 20 Indian softwere exporters.

US was the first Indian software company to obtain ISO9001/TickIT certification in 1992 and the first to use high-speed data links over

six years ago to execute offshore projects.

Today, the group has a 126Kbps link to the UK and a 64Kbps satellite link to the US where it has a geometric modeling joint venture. Its other main specialities include migration work and re-engineering software applications for clients ranging from Merrill Lynch to

Abbey National and Reuters. The group's UK-based subsidiary ranks as one of the two leading suppliers of offhas established a track record for delivering successful projects since 1985.

Like many other Indian software companies, the relationship of IIS with its big overseas clients often begins in a relatively modest way. For example, from being a sub-contractor to North West's consultants doing basic coding work, IIS now has the status of a prime contractor executing turnkey projects.

"It has been a very good relationship," says Mr Saurabh Srivastava, IIS managing director. More generally he says the work with North West and other large overseas customers has helped the group "reach critical mass...now we have the infrastructure and the size to bid for the bigger projects," he says, "we have shifted our vision."

Joint ventures

In particular, IIS expanding geographically. setting up a company in the US. a joint venture in Holland and buying a 50 per cent stake in a Singapore venture - its first investment east of India. The aim, says Mr Srivastava, is to be truly global. IIS is also broadening its product offerings, including setting up a unit to deal with Year 2000 projects and also plans to design and build its own Another customer is the

and services. The product is backed by the capability maturity CITIL's Bangalore facility model of software engineering and recently achieved Level 4 certification, placing it among the top two per

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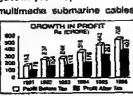
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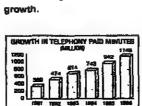
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Information Technology

Java poised to crack it open

Researchers say that new Java software 'is at the epicentre of a seismic shift in the \$650bn global computer industry Paul Taylor examines the claims

programming lenguage - named after a type of gourmet coffee bean - which promises to unleash their creativity and liven-up network computing in matter what computer or operating eneral, and the Internet and corporate

lower the cost of desktop computing and improve their efficiency and com-

According to a recent study completed by Forrester Research, more than 60 per cent of top US companies are experimenting with Java and over 40 per cent have already decided that it will become crucial to their internet for most operating systems and are computing strategy within a year.

So what is all the excitement about?.. Java is a programming language developed by in 1990 by James Gosling ... open by in last by dames conting, a programmer at Sim Microsystems, the US-based workstation window whole machines supply most of the compassing power behind the World Wide Web. Originally called 'Oak', it, was

intended as a control programme lan-guage to be used in domestic products such as set top boxes and video record—such as revolving corporate logos or ers and was therefore designed to be ticker tapes, take Web documents — see compact and easy to develop. "Java is bezeroord explanations, above, right fully 'buzzword-compliant'," jokes Martyn Lambert, director of the network computing sales group at Sun in

"It is a simple object-orientated, distributed, interpreted, robust, secure, architecture neutral, portable, highperformance, multi-threaded and dynamic language." That may help explain Java's popularity among fashion conscious programmers who are rushing to learn the language and join Java development teams, but what really makes Java special and important to businesses is that it is truly "platform independent".

Currently, if a programmer wants to develop a new application (software programme), it has to be written for a specific combination of computer hardware and operating system, for exam-ple, an application developed for a Windows-based machine will not work on a Unix workstation. That means that if a corporate in-house software develop-ment team wants all computers to be able to run a particular application, a separate version has to be developed for each operating system.

Java is designed to break the fixed links between the application and the

ony-tailed programmers and operating system, so that developers computer 'nerds' are getting can create programmes which can run excited over a new computer on any computer. This means that programmers cap focus on developing applications once only, and then distribute the application to anyone no

intranets in particular.

But perhaps more surprisingly, Sun
Microsystem's Java software has also
caught the public's imagination and
caught the public's imagination and
fired up the enthusiasm of big business
customers who are betting that it will
into a working application, the comsystem they are using. Sun's Java achieves this alchemy in puter must be running a separate process known as the Java virtual machine. This is another small software programme that reads the byte code and translates it into instructions the computer and operating system can

> Java virtual machines are available already incorporated into most of the main web browser packages including the latest versions of Netscape Naviga-This means that every computer run-

> Programmers initially demonstrated the samplicity and interactive potential of Java by building so-called Java applets, small software applications

Cost-savings in desktop computing

While many people dismissed these sarly appliets as insignificant, the full implications of Java and Java programming are only just beginning to be recognised.

For example, Java applets can provide a type of 'just-in-time' computing. Instead of installing huge programs every time they need a new function, computer users can download an applet across a network, such as the Internet. Java's advocates also believe that it will belp cut the soaring costs of desk-

top computing. For example, Dun & Bradstreet has built a Java applet that will let employees issue a purchase request to a corporate server without having a full-blown purchasing program installed on their personal computers. Other software developers have created Java applets that let Web browsers view corporate databases and mainframe applications.

But the main savings are expected to come from reduced maintenance and



jest the initial purchase price of a personal computer only représents à frac-tion of the total cost of ownership which may be as high as \$8,000 a year. Instead of having to visit every PC on a network in order to upgrade software or fix a software bug, a Java-based application can simply be replaced or upgraded centrally and is immediately

accessible to all the desktop users. This model has particular appeal for service organisations such as telecomdistributors and financial services pro-

Reflecting this, some of the early dopters of Java technology in the UK include British Telecommunications, Reuters and NatWest bank.

BT, for example, has developed a Java-driven data visualisation application which takes data on the volume of telephone calls across the UK and transforms it into a graphical format. Meanwhile, NatWest has developed an munications companies, information online banking package using Java

ness customers along with a browser to

access the service. Charlie Herbert, manager of Nat-West's new delivery channel unit, says Java has helped ease concerns about customer support and security. "I control the software and I can change it or

fix bugs 'on the hoof'," he says. Java's potential is not however limited to desktop machines. The next generation of personal digital assistants - hand-held computer and com**Java buzzwords** benefits

Lower desktop support costs. Enables the use of older 'legacy' desktop equipment.

Widespread industry support.

 Potential for low-cost network Unified development language.

 Centralised application management. Duke, the lively-Java 'mascot'

shown above, symbolises the software's ability to make the Internet and corporate intranets more dynamic, accessible and user-

Jima buzzwords

Java: a pietform-independent programming language. Java virtual machine: a amul programme which translates Java byte code into computer

 Java Applets: small Java Java beans: a framework or architecture into which a programmer can 'plug in'

Hot Java: Sun Microsystem's Java-enabled web browser. Java chips: semiconductors designed to nut Java programmes at lightning speed...

munications devices - may well be Java-powered and several telecom equipment companies, including Cansda's Northern Telecom, have announced plans for Java-enabled tele-phones which will also enable users to access the Internet and corporate intranets from a telephone handset.

Almost all the leading participants in the emerging Internet software market have agreed to support the Java language - even though it only became fully available in February this year. Among them, International Business Machines in particular is moving rapidly to incorporate Java in its range of computer platforms and has estab-lished its Java Technology Centre at its Hursley laboratory in the UK.

"IBM is putting Java on all of its computer platforms including OS/2, AIX, AS/400 and mainframe MVS," says Simon Phipps who is in charge of IBM's Java development work. "Java makes it possible once again for a business to leverage its size by deploying enterprise-wide solutions."

But not everyone is so enthusiastic. Although Microsoft has also licensed Java, Charles Fitzgerald, who is in charge of Microsoft's ActiveX technology, has noted, "Java is not a cure for cancer, it doesn't repeal the laws of gravity - and there's a lot of things you can't do with it".

Earlier this year, the Gartner Group also gave some reasons for caution. Gartner argued that Java was a young and immature language, that there

Continued on back page



View from the top



evaluate and adjust your stratedy

I Interview with Joe Tucci of Wang Laboratories - By Paul Taylor

An open approach to business

Wang, the one-time office automation part of a new management team three years ago. Wang leader, has reinvented itself as a services and software supplier

office automation in the late 1970s and early 1980s before the personal computer revolution swept them off the desktop and plunged the Massachusetts-based group into huge losses and a Chapter 11 bankruptcy filing in

But now Wang - under Joe Tucci, chief executive since 1993 - has emerged from Chapter 11 and reinvented itself as an indepenplier and one of the fastest growing vendors of workflow, integrated imaging and document management soft-

Looking back, Tucci force acknowledges that "in the "In early 1980s, Wang was the standard for word-processing office automation, and most large enterprises, whether government or private busiess, standardised on Wang both for office automation

Initially, Wang's strategy, based on proprietary tech-

Tang Lahs' word-pro- nology, worked. Company cessors were syn- turnover grew rapidly from onymous with \$300m and to almost \$3bn in 1986. "It was incredibly rapid growth," says Tucci. But Wang also made mistakes. "I think the biggest failure was the failure to open up," says

> Not only did Wang fail to adapt to the rise of open systems and Unix, but the company also failed to ensure quickly enough that its systems could work with equipment from other industry leaders like Digital Equipment and International Business Machines. In addition, rather than forging distribution agreements with other companies. Wang built up a huge internal sales-

"In the hevday there were well over 3,000 sales reps and they did very little partnering," says Tucci. "Open for me means the open systems piece, the interoperability piece and being open to work with others, and I think Wang failed on all

When Tucci took over as

was in the middle of a restructuring process designed to refocus the

group on two growth areas. Since the late 1980s most of Wang's systems had been working in open system and client/server environments and therefore the group had acquired skills and expertise not only installing and mainputing phenomenon." taining its own systems, but in integrating them into heterogeneous local area net-

. We had worldwide capability in building these sort of Lans, so we decided to build on this," says Tucci. "Secondly Wang had pioneered imaging, workflow, and document management technologies so we started re-writing those for the open environment and made that

Wang today is basically two businesses, a services business and a software business. We run them quite independently. Each one has its own sales force, its own R&D, its own financial

staffs. Looking forward, Tucci expects the services business report revenues of about \$1.5bn in the year from Sepyear to more than \$100m. We believe we have got

on the wave early," says the Wang chief executive. "We saw the network centric world coming and we designed more what they call light clients which positioned us very well for the Internet and network com-

Tang has also formed a closs strategic partnership with Microsoft (which has invested \$90m in Wang's preferred stock) and was an early adopter and advocate of Windows NT.

"In the network computing world our vision is to be a leader in network and desktop outsourcing." says Tucci. "The CEOs of compaies struggle every day with the increasing costs of client-server or network centric computing and there seems to be a worldwide trend to focus more and more on core competencies. That means companies are outsourcing big pieces of their IT.

Our biggest problem now is hiring and training people," he says. Among the services Wang provides for its

tember, and the software customers are services pro-a storage problem, so we side to grow from \$50m lest curement, systems design have a hierarchical storage and implementation, and asset management. Most companies, he says, still do not know whether they have one year, two year, or three year guarantees on hardware, what the guarantee on software is, or what rights they have to software updates. All of that is part of

> Meanwhile, he says, "a lot of companies are using legacy systems". For example many companies have installed Lotus ce: Mail or Microsoft Mail for messaging. But, says Tucci, "they want to be on (Microsoft) Exchange and the Mapi messaging systems of the future. That move is not trivial, so we try to focus on the infrastructure rather

warranty and asset manage-

than the specific solution". Tucci also emphasises the importance of partnerships, Many of our partners are the EDSs, Computer Sci-ences or Cap Gemini's because even those large companies do not have the skills in this space and they would tend to subcontract their outsourcing activies to companies like ours which

are highly specialised. Similarly Wang also pro-vides multivendor platform support services for companies like Sun Microsystems and Dell Computer: Because of our independence we are not threatening," says Tuccl. Among Wang's other clients are Packard-Bell, Zenith, Siemens' Pyramid unit in the US. Apple Computer and

Tucci refers to Wang's rapidly expanding software business as "the office automation systems of the future". These include structured workflow, imaging and document management packages. "Of course," says Tucci, "as you digitise this

much information you create

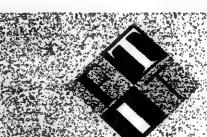
management product."

While Wang continues to invest in Unix, its largest investment is in Microsoft Windows NT. "We are riding that wave hard," says Tucci, "That is not to say we are abandoning Unix. We still have a very substantial investment in Unix but we have really invested to be the leaders in NT in this

"I think the office of the future will be Microsoft based," he says. in the corporate world he says Microsoft is a 'one purchase deal'. "We are back to a homogeneous environment from a software point of view, sort of what you had in the old days with Wang, except with Wang you had to buy VS (Wang's proprietary software) and you had to buy the Wang workstation, whereas today you have a wide choice of servers, PC manufacturers and even microprocessor

platforms.
But Tucci also emphasises that no company in the IT industry can afford to become complacent. As a company re-born, he views Wang's key advantages as its speed and nimbleness.
"We don't have a memory. We are a new business. We don't have a big legacy," he

very quickly and it is easy to become obsolete unless you constantly evaluate and adjust your strategy." He tells Wang's employees: "if you are not highly adaptive and don't like change, you have picked the wrong company and you're in the wrong industry. But if you are looking for a vast opportunity and can commit yourself to hard work and innovation, you can reap the rewards this company and industry has to offer. So if this excites you, put on your seatbelts and let's go.'



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The internetworking revolution ... By Paul Taylor Scramble for shares in a \$470bn world market

As businessess move towards the information age, office system suppliers are in a race to help users exploit the vast pools of data becoming available on the Internet and through other online electronic services

months, the emergence of the Internet as a business tool, and the rapid adoption of open Internet technologies as the foundation for internal networks, or intranets, has transformed the outlook for technology in the office and further blurred the distinctions between telephony and data

The immediate impact of this latest IT revolution is reflected in the scramble for new business among traditional suppliers to the \$470bn worldwide market for IT products and services. Well-established companies such as IBM, Microsoft and Oracle are adapting to tha challenges and opportunities posed by the phenomenal growth of the internet and the prospects for electronic

Meanwhile, newer companies such as Netscape Communications, the California Internet start-up, and Net-com, the Internet service provider, have been catapulted to prominence while the Internet "plumbers" -such as Cisco, the fast-growing internetworking equipment supplier, and Sun Microsystems, whose web servers help power the Internet - have become hot

shares... Together, these companies are putting together the digital infrastructure for the next decade - an infrastructure that they believe will provide their corporate customers with the electronic tools they need to compete in an era in which the old distinctions between voice and data and between computers and telephones no longer apply.

Naturally, most IT suppliers have their own angle on the internetworking revolution. For example, IBM - the grandfather of office automa-

ver the past 18 tion - sees the growth of the this will remove the remain- the end-users, and local area Internet and internetworking as an opportunity to exploit its expertise in systems integration. IBM has also jumped aboard the "network computer" bandwagon, which promises low-cost digital devices that will rely on networks and servers for

most of their power. Similarly, Microsoft, which dominates the market for desktop operating systems and integrated "office" software suites, has responded forcefully to the threat posed by Netscape and other Internet start-ups. A year ago, Mr. Bill Gates, Microsoft's chairman, set out a new strategy for Microsoft aimed at placing the Internet at the core of all the company's office products and technologies.

One result of this change is that Internet Explorer, Microsoft's Internet browser software, will provide the user-interface to the next generation of Microsoft desktop operating systems. From the end users' point of view

ing distinctions between networks made the sharing locally stored data, and of data and peripherals information stored elsewhere on an intranet or the

Indeed, the whole basis for using IT systems in the office has changed dramatically in recent years. In the days of the corporate mainframe or departmental mini computer, corporate customers mainly thought of IT systems as a means to cut costs and automate existing functions - hence the everelusive dream of the paper-

oday, however, virtually no-one talks about "office automation". Instead, companies are investing in high performance multimedia network systems to improve their competitiveness, reduce time to market and respond faster and more effectively to cus-

Desktop PCs put more direct power in the hands of



easier. But now all these systems are being interconnected using standard Internet protocols to provide seamless internal access to the full resources of an enterprise.

rity devices stand guard over these valuable internal ners, suppliers and custom-ers. Although many compa-

In the office environment, most medium and large-scale companies already rely on a wide range of digital devices and technologies to run their core business operations. increasingly, these devices ranging from photocopiers to coffee vending machines are being hooked together and given their own "intelligence" so that they can function more efficiently.

Not only do these integrated systems ensure the amouth operation of basic office processes, but they also increasingly provide key interfaces with both suppliers and customers. Customer helplines are equipped with sophisticated voice systems: computer telephone integration technology brings together the power of data processing and the reach of the telephone; Web sites give even small local companies the chance to compete with multinationals; electronic mail provides a low-cost alternative to flow and imaging software

Firewalls and other secu-

resources while providing gateways to the external dig-ital world for those inside, and selective access for partnies have sought to focus on their "core businesses" and outsource peripheral operations; they are also seeking to use technologies such as e-mail, groupware products and electronic data interchange to build closer relationships with their business partners.

communication. The growing complexity of office systems has placed network management tools at a premium. The worldwide market for network maintenance and help-desk services is worth around \$19bn and growing by about 15 per cent a year.
Meanwhile, as the shift towards the fully integrated

digital office gathers pace, huge volumes of data are being generated, data that needs to be stored, sifted and manipulated if they are to give useful information. So today some of the fastest-growing IT areas are workflow, document and image management systems, data warehousing, enterprise

or, shove, from PictureTel, enab

information systems and data visualisation - all methods to extract the maximum value from massive quantities of raw material see saftware report, pages 14-17. The market for open systems production work-

more traditional forms of alone is worth about \$400m and growing by about 35 per

Electronic 'whiteboards' are becoming a key feature of videoconferencing. At the touch of a button, the Groupview document confe

ts to distant meeting sites. See also report by Nusia Moran on whiteboards, page 6: the latest trend in teamwork.

les business users to send high resolution images of paper docu

An increasing number of companies, including those in the financial services industry, is beginning to use sophisticated data mining techniques to target individual consumers, while others are using Internet technologies to personalise their ser-vices. The new management mantra is: use FT "to sell to a market of one".

eanwhile, the explosion of information available on the Internet and through other online electronic information services has generated new interest in sophisticated search techniques and "information robots", which can seek out and highlight useful information. Such techniques are already being used to reduce purchasing costs, track competitors and identify market opportuni-

Indeed, in the new infor-

mation age one of the key differentiators between successful and unsuccessful organisations may well be their ability to exploit effectively the huge pools of information likely to be at their command.

advanced forms of data communications within the office such as "whiteboarding" (see report, page six) and multimedia e-mail, the sheer volume and variety of data requiring delivery to the desktop is pushing exist-ing networking technologies to the limit and fuelling the search for an enterprisewide, high-speed broadband technology capable of carrying all an organisation's electronic traffic. The main candidates appear to be Fast Ethernet and Asynchronous Transfer Mode (ATM) which can support video and digital sound as well as data and

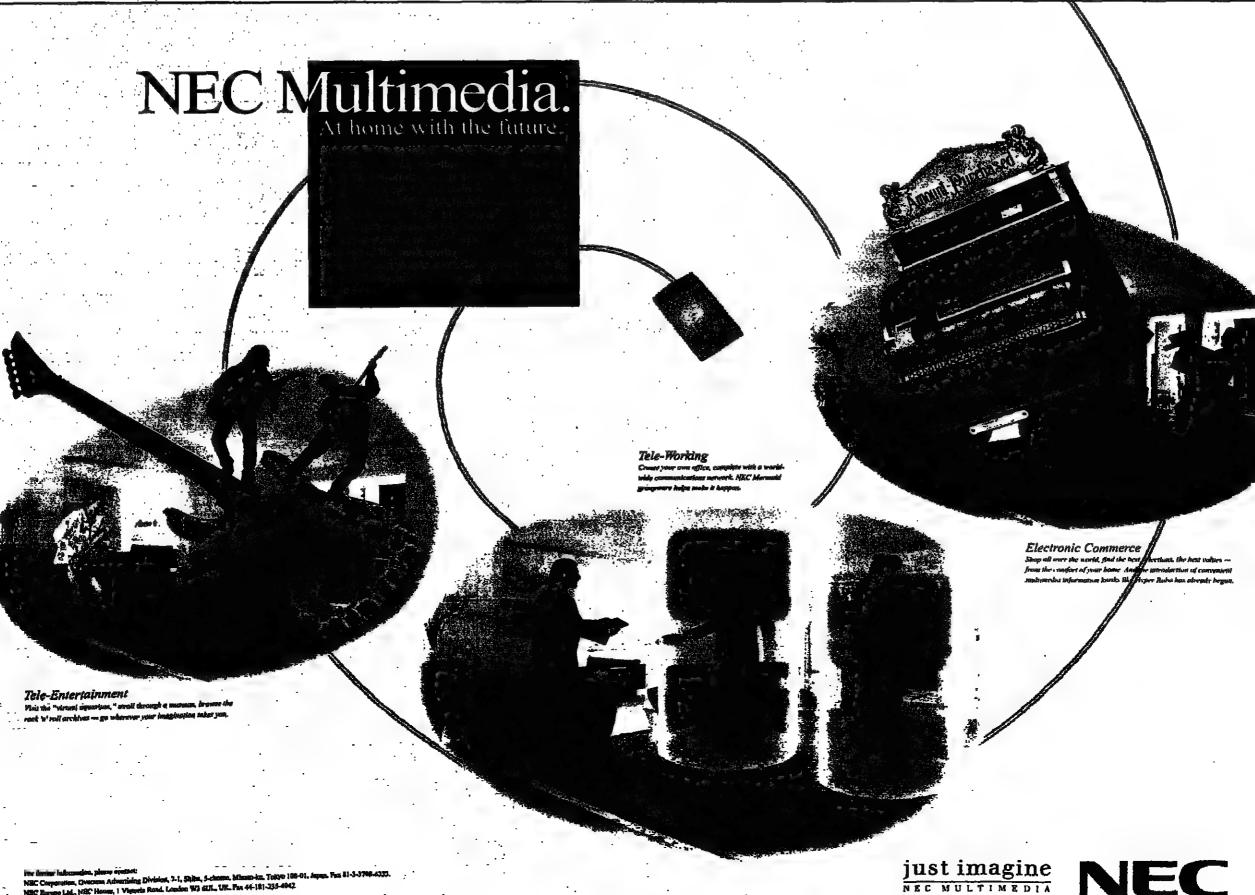
graphics. the office equipment infra-

attract attention. In particular, the lack of flexibility costs imposed by hard-wired telecom links. Cordless telephony, wireless networking and high-speed infra-red links between devices such As the demand grows for as printers and portable pes are all expected to play a bigger role in the office of

the future. Outside the office, a growing number of businesses is already using digital cellular telephony, portable computers and mobile data networks to exchange informs tion between the central office database and mobile employees, such as salesmen

or engineers.
Indeed, for some companies, the requirement for a full scale physical office may even disappear. In the "virtual corporation", staff will work mostly from home or while "on the road" and yet still have full access to the Other "inefficiencies" in panoply of digital corporate and Internet resources of the structure have also begun to dawning information age.





years, 80 per cent of the 400 top organisations in the UK will form a strategic partnership for the supply and management of IT services. In effect, they will be acknowledging that they can no longer cope alone with the opposing pressures of fostering a flexible and responsive IT capability at the same time as controlling the cost.

This signals a change in approach to the outsourcing of IT, which is currently mainly done for tactical reasons, to reduce costs or to deal with particular projects.

"There are strong indications that a radical change will occur in the structure of the majority of IT divisions in the top 400 UK organisations within the next few years," according to a report by the international research company, Input.

These organisations each spend more than £12m a year on information technology. "They will on average outsource 40 per cent of this," says Peter Dooley, marketing manager of the IT services company, FI Group, which

commissioned the survey.

"They are putting out such an enormous part of the IT function that attitudes to outsourcing will change. At this level it will affect the structure of the business, and they will be looking for strategic and long term partnerships."

partnerships."
Through these
partnerships, companies will
aim for an IT capability
which can respond to the
needs of the business, while
keeping costs manageable.
This will allow a company to
move in and out of new
product areas without either
needing a huge investment

Take your partners

In the recession the prevailing argument for outsourcing IT services was cost reduction. Now sentiment is changing and outsourcing relationships are increasingly strategic, rather than tactical



Dooley: outsourcing allows

in IT, or paying for IT that is surplus to requirements.
Companies now expect the majority of revenue to come from new products. Many of these have information technology embedded in them, or are enabled by IT.
Product lifetime is becoming

these have information technology embedded in them, or are enabled by IT. Product lifetime is becoming shorter, and companies cannot allow the process of gearing up IT to cause a delay in getting a product to market.

"You can no longer afford to have an IT pipeline of a

to have an IT pipeline of a particular size, and then work through projects according to their priority rating," says Mr Dooley.
"Now if you are six months late with a product, you could lose half of its lifetime profitability."

Furthermore, outsourcing IT functions allows companies to grow faste because it removes the constraint of capital a investment in computer

For example, a credit card company can recruit 20,000 new customers without having to expand its sing capability. Takeovers and mergers are also pushing companies into closer relationships with outsourcing suppliers. The cost-savings achieved when two companies are consolidated can be greater if a supplier or suppliers provide IT services for the whole, rather than integrating two sets of systems, or expanding one of

them to meet the needs of the enlarged organisation.

An example is the \$5hn merger of the European downstream wards of British Petroleum and Mobil of the US. The merged organisation announced in October that it will outsource its accounting and financial transactions, along with more than 700 staff to Andersen Consulting and Price Waterhouse.

The company would not say how much it might save by outsourcing. But instead of running separate accounting systems in each of the 43 countries covered by the joint venture agreement, it will be paying the outsourcing partners to run one system each.

Apart from reshaping IT to

make it responsive to

business requirements, IT

John Willmott: The year 2000 problem will be costly

directors are now facing the huge overhead of dealing with the year 2000 problem. Most older computer programs, particularly those that run on mainframes, use only two digits to designate the year - for example 86 for 1986. Computer systems that have not been changed by midnight on December 31, 1999 will respond to the start of a year ending with the digits 00 by assuming that there is an error, and stop working, or interpret the year as 1900. This will invalidate all kinds of data-related calculations, sort routines and indexing

procedures.

Dealing with this problem threatens to be costly and distracting. Even companies which consider their systems to be date compliant

will have to do an audit.

Also, compliant systems
could be undermined by data
coming from suppliers or
customers.

Having a close outsourcing relationship will make it easier to smooth out workloads associated with the year 2000 projects, and ensure this work is not carried out at the expense of projects which drive the business forward, says Mr John Willmott, manager of Input's outsourcing programme.

Another imminent problem for banks and other financial institutions is the introduction of a single European currency, Even if the UK does not join, systems will need changing to accommodate the single currency. Mr Dooley comments: "With European Monetary Union and the year 2000 problem, 1998 looks like being a horrendous year with much skilled input required fust to stand still. But organisations will not need that level of people all the time."

Companies need their IT capability to be scaleable, allowing it to be turned up for a new product launch, or turned down to avoid duplication in a takeover or merger. "The problem for IT directors is that change is like London buses: nothing happens for a while, then it all happens at once," says Mr Dooley.

"This is why they are now looking for a different type of relationship with external suppliers. Change is lumpy. Companies are looking for partnerships which will help to smooth it out."



Operators at their workstations in the new telephone banking operation at Halifax Direct, in Water Lane, Leeds. Torch Telecom is providing 330 telephone lines through its high-tech network for Halifat Direct, which is introducing its services on a phased basis. Business telephone services are being transformed with enhanced software: see also reports on call centres, pages 8 and 17

■ Computing on the move ■ By Pail Taylor

Portable PCs make steady inroads into desktop market

With a few clicks of a mouse, notebook PC users can gain high speed remote access to e-mail, the Internet, or a corporate intranet

he 'notebook PC' once viewed as little
more than an expensive executive play-thing has firmly established itself
as a mainstream business
tool, helping individuals to
stay in touch while on the
move and enabling organisations to maintain or extend
their competitive edge.

At the same time, a growing number of organisations and 'virtual companies' in particular, view the high performance portable PC as a more flexible alternative to a 'traditional desktop – a machine which can be hooked into the corporate network via a docking station or network card while in the office, then taken home – or on the road, when

traveling.
Used in conjunction with fixed or wireless communications links and credit-card sized data cards or high speed fax modems while traveling, the portable PC is enabling companies and other organisations boost customer service, improve productivity and provide additional workforce flexibil-

Today, high speed remote access to e-mail, the Internet, or an internal corporate intranet, can be just a few mouse-clicks away, even while on the move. Sophisticated integrated software packages, such as Procomm Plus and Winfax Pro, provide easy data communications while on the road using high speed data a fax modems which now include V34bis devices capable of transmitting data at

33,600bps (bits per second). For other business users. including home workers, remote access programmes such as kaplink and pcAnywhere, enable the portable PC user to log-in and take control of a desktop as though they were sitting in front of the office machine. Other packages, including roupware such as Lotus Notes and an increasing number of internet-enabled applications, are also designed to work across local or wide-area communications links, enabling co-op-

erative working. In Europe in particular, the arrival of digital GSM (Global System for Mobiles) cellular digital networks has made keeping in touch with the office while on the move, much easier over the pas five years. Portable PCs equipped with a cellular data card can be plugged into a digital GSM handset to send or receive data from almost anywhere in Europe – and a growing number of other places where there is a GSM

"Companies are acquiring portables in record numbers, indicating pent-up demand for the flexibility afforded by being mobile," noted a recent study of the European market for portable PCs prepared by International Data Corporation for Dell Computer, one of the notebook market leaders, with its range of Latitude machines.

Sales of portable PCs, which are also manufactured by companies such as Toshiba, Compaq, International Business Machines and Apple Computer, have been

growing twice as fast as desktops in some markets and are expected to continue to outperform the general PC market.

The value of sales of mobile computers will more than double from \$30bn last year to nearly \$80bn by the end of the decade, an 18 percent compound annual growth rate, according to a recent study, Pen, Palmtop and Notebook Computers, prepared by Frost & Sullivan, the market research

This demand is driven, at least in part, by the emerging trend for companies replace desktops with portables which are increasingly sold with docking stations or port replicators enabling them to easily integrate with corporate petworks.

For example, Dell says that 70 per cent of its new Latitude machines sold in the UK are sold with port replicators which, aside from the usual communications, external video, keyboard and mouse ports, also include built-in support for Scsi (small computer serial interface) devices and network adapters.

"Continuous price and performance improvements make the decision to substitute portables for desktops easier," says the Frost & Sullivan report. "Businesses in

The gap in performance between desktop machines and new portables has narrowed considerably

Japan commonly use portsbles now as their primary computers,"

Similarly, IDC suggests that the portable PC is the primary system half the time at large and medium-sized companies in the US, but portable PC users in Europe appear to be lagging their international counterparts.

The growing popularity of portables also reflects technological and manufacturing advances in areas such as semiconductor packaging, screen design and battery technology, as well as the relentless drop in component prices, particularly for Ram (random access memory) and hard disk drives.

Until relatively recently,

portables suffered a number of disadvantages over their desktop counterparts. However, over the past year both the performance gap between desktop machines and their portables counterparts and the price premium paid for portables have narrowed considerably. Two years ago a portable machine cost on average 2.8 times the price of a comparable desktop, now the premium is down to 40 per cent.

Intel, the world's leading microprocessor manufacturer, has targeted the mobile computer for particular attention. developing a series of light-weight chips with low-power consumption

specifically for portables. As a result, many of today's portable PCs boast fast Intel Pentium microprocessors which nevertheless consume much less power than their medicessors.

Meanwhile, most notebook machines now come with a minimum of 8Mb of Ram, 500Mb or larger hard disks, 12-inch and sometimes ever 13-inch colour screens (virtually the same size as standard desktops) and an integrated CD-Rom drive - all in a package that weighs just over 6 ibs.

Almost all manufacturers

have abandoned the market for mono screens. Higher quality 'active matrix' TFT (Thin Film Transistor) screens are gaining market share as greater manufacturing capacity, higher yields and increased competition help erode the price premium over 'passive' STN (Super Twisted Nematic) screens.

For those users who do use their machines away from power sockets for extended periods of time, longar-life Lithium Ion batteries now provide considerably more power than earlier Nickel Hydride technology, while weighing much less. Similarly, the universal acceptance of the PC-Card (previously called PCMCIA cards) standard, for adding peripheral devices such as modems, has also made mobile computing much easier — and less cumber-

Most portable machines now have two PC-card slots capable of taking the credit card-sized devices. As the demand increases for 'connectivity on the move', the market for PC-card modems, network adapters and wireless data cards is expanding rapidly.

For those with limited computing needs and deep pockets, the latest generation of wireless digital personal assistants - devices which combine the features of a digital telephone and a high powered electronic organiser - are attractive.

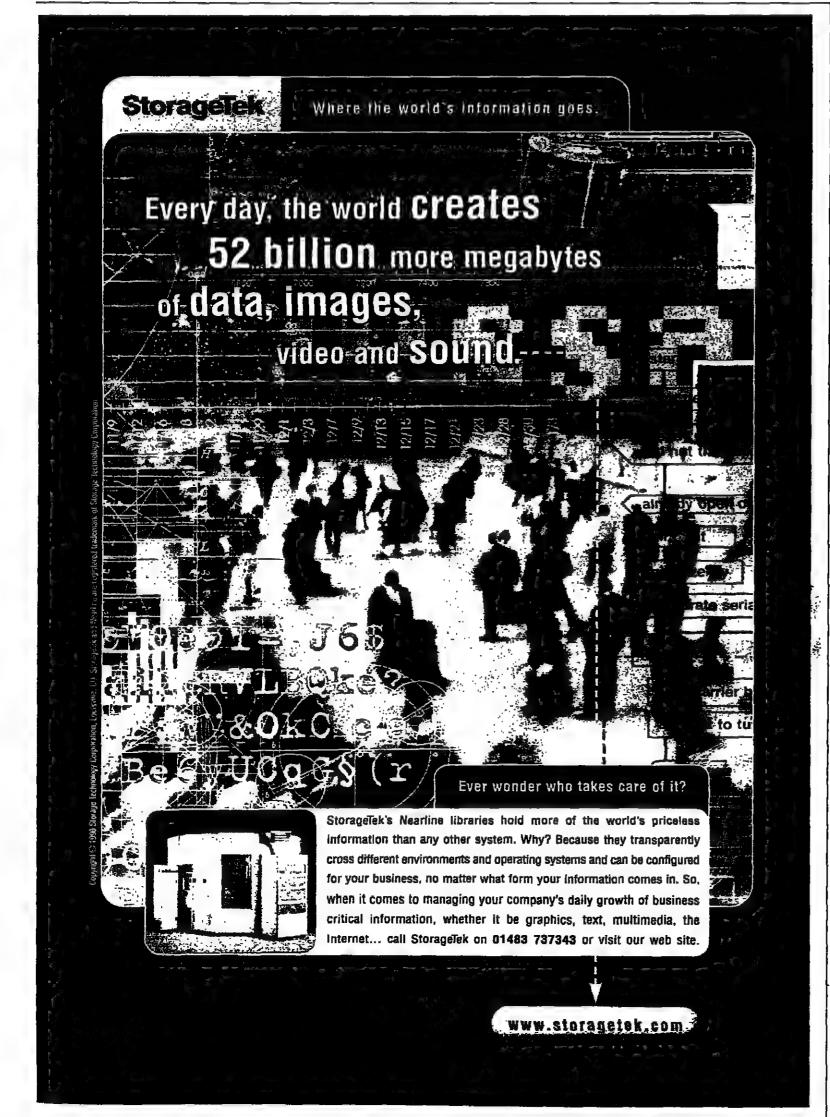
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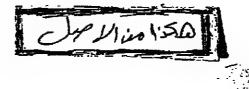
PCs and wireless telephony
in new devices from
Nokia, Hewlett Packard and
Motorola, as well as add-on
enhancements to existing
hand-held machines such as
the Psion 3a and HP 100LX has helped re-ignite interest
in the pocket-sized computing market, following disappointment with first generation PDAs such as early
Apple Newton's which
lacked wireless communications facilities.

For example the GSM-based Nokia 9,000 enables the user to send and receive e-mail and cruise the World Wide Web, as well as make standard phone calls - all from a single (large) pocket-sized device. But it comes with a hefty £999 price tag.

"PDAs, growing rapidly from a small base, will continue to be a success in niche markets, but they will need improvement before they become the mighty industry predicted at their introduction," says Frost & Sullivan.

For the moment, notebook and smaller sub-notebook machines are expected to account for the vast majority of world mobile computing market revenues – and continue to make steady inroads into the desktop market.







Systems security and support . By Paul Taylor Contingency plans are vital

Effective data management systems, back-up procedures and disaster recovery plans are not a luxury; they are an essential part of doing business in the information age

armed thieves and "Ramraiders" have helped turn puting Centre. chip theft into a multi-billion-dollar worldwide industry. Meanwhile, equipment failures, accidents and the to the very survival of busi-

Corporate computer grow. systems, networks and database information in particubusiness tools, but dependence on computing power carries inevitable risks.

the bomb attacks in London. Docklands in February and in Manchester in June serve as tragic reminders of the need to develop adequate

contingency plans.
In the wake of the resumption of IRA bombing activity, nearly one-in-four city firms surveyed by Guardian Computer Services in conjunction with Computer Weekly magazine had adjusted their disaster recovery plans. The survey, published in August, also revealed that an overwhelming 77 per cent predicted that their investment in disaster recovery systems will increase over the next two years.

The need for disaster recovery plans is highlighted by a recent study by Coopers & Lybrand, the accountancy Ifirm, which reported that more than 60 per cent of large UK organisations have suffered a serious control. failure with a computer system during the past two vears. And a Loughborough University study revealed that 70 per cent of businesses that suffer computer failure of one kind or another will be out of business within 18 months.

Computer equipment failures and power failures are

omputer "hacking" problems, according to the and virus attacks are latest Information Security on the increase while Breaches Study by the Manchester-based National Com-

Local area network, and wide area network failures in particular, appear to be on the increase and there is unexpected can pose a threat evidence that downtime increases as the size and complexity of networks

The shift from mainframebased computing towards lar have become important distributed computing and client-server systems also has important repercussions for the integrity and security Terrorist incidents such as of corporate data. Some surveys suggest that between 60 and 90 per cent of corporate data now resides outside the traditional data centre on Unix and other data processing platforms.

While it is relatively easy to ensure the integrity of a mainframe data centre and that it is backed-up effectively, it is much more difficult to devise effective back-up processes for distribnted systems.

Even where the back-up processes are properly defined, security consultants suggest they are often poorly implemented. For example, back-up tapes are stored at the same location as the original data. If there is a fire or other disaster which destroys the computing equipment on a site, the back-up data is lost with the original copy of the informa-

Such surveys confirm anecdotal syldence from computer users, data recovery specialists and consultants whose experience suggest that despite the risks, many companies still have inadequate back-up procedures.

For example, a recent study by accountancy firm Ernst & Young revealed that although IT security was a the most common cause of big concern for manage-

Peat Marwick, UK accountants, showed that 98 per cent of organisations in the UK and Ireland have failed to implement the BS 7799 Code of Practice for Information Security management" which was published

Mr Michael Bacon, director of information security services at KPMG, commenting on the findings a few months ago, said: "Given the value to organisations of both computer equipment and data, it is extremely disturbing that such a large number have failed to implement these basic security

The scale of the security risk is daunting. In Britain alone, thefts of chips are estimated to have cost British industry £1bn last year, with insurance claims approaching £200m. The largest single incident of any type recorded by the National Computing Centre involved a theft which cost £750,000.

But the cost of replacing stolen hardware often represents only a fraction of the cost of lost data and soft-

most of the headlines, computer crime also encompasses other activities such as hacking and virus attacks. In the US, an estimated \$2.7bn was lost to computer virus infection in 1994 alone. The growth of networking and the Internet is raising the stakes.

"Computer crime is now rife and spreading at epidemic levels," claimed the organisers of Infosec 96, the UK's first big IT security exhibition, which was held in London earlier this year.

n Britain, four out of five organisations have suffered an IT security breach, according to data prepared by Ernst & Young and the Department of Trade and Industry. Experts in the IT security sector estimate that breaches cost UK companies more than £1.2bn a year with incidents rising at 12 per cent a year. "It is becoming more and

more difficult to keep unwanted 'visitors' out of computer networks," says er Hill, director of Index PEP, one of CSC Index's research arms.

a third had no security policy. Another study by KPMG cal computer crime steals 8,500 computer viruses in circulation, with between 150 and 200 new viruses being written each month. In North America, a report on computer viruses conducted by the US-based National Computer Security Association, suggests computer viruses will cost North American businesses between \$5hn and \$6hn this year. The NCSA study, which involved 300 large organisations, discovered that 98 per cent had experi-

> The losses stemmed from costs related to finding and eliminating these viruses, as well as computer down-time. At least half of the increase in losses was caused by the new macro viruses which are spreading faster than any other type of virus because they can travel by e-mail and can prove difficult to detect because most users do not scan documents for viruses.

> Specialist "firewall" softwere and anti-virus pro-grams have been developed specifically to help protect companies from backers and virus attacks. Indeed, the

enced computer virus

growth of the Internet, inter- one, fuelling exponential nal corporate intranets, and concerns about security have fuelled a surge in the nascent commercial firewall software market.

security has become arguably the hottest Internet topic, the firewall market has emerged as a way to address this urgent con-Corporation, the market research firm.

"IDC expects that this demand and market emergence will prove a powerful

to protect the financial sector from external hackers and virus attacks growth in worldwide unit puter abuse is caused by shipments (of firewall prod-insiders.

ucts) from 10.000 in 1995 to 1.5m in 2,000." But although a growing "At the same time that number of companies are beginning to use more sophisticated mechanisms such as firewalls in an effort to keep their systems secure, Mr Hill notes: "Even the cern," says a report pub-lished by International Data not be effective for long, while technology advances further". Firewall security and anti-virus software are combination of significant also powerless against attacks from within, and

most studies suggest that

about 60 per cent of com-

Catastrophes, man-made or natural, provide a powerful marketing tool for the disaster recovery companies in the business of providing 24-hour back-up facilities and services such as off-site tape silos capable of storing

vast quantities of data. What these companies stress is that effective data management systems. back-up procedures and disaster recovery plans are not a luxury; they are an essential part of doing business in the information age.

Anomalies across international borders

Encryption will be widely adopted to protect financial transactions, despite national security concerns

global computer networks for commerce re-emphasises a long-running controversy: how to resolve the problem of data encryption. On one hand, companies and individuals, quite justifiably, want to keep their transactions pri-vate; on the other hand government authorities, again quite justifiably, are unhappy about possible misuse of encryption by crimi-

nals or subversives. The connection between

The increasing use of tography - the science of data encryption - goes right back to the beginnings of the computer aga. Indeed, one of the first computers in the world - the Colossus - was built during the second world war to help crack the German military's secret communications codes.

Ever since, national governments have attempted to control the use data encryption - insisting that they must have a way to monitor private trans for example, Mr Robert ments in Britain, more than computer systems and cryp- inman, the newly-installed

head of the US's National Security Agency (NSA), warned: "Non-governmental cryptologic activity and publication poses clear risks to the national security." As a result, data encryp-

tion software was classed as 'weapon' and ranked alongside tanks and nuclear missiles as a 'strategic' export. It is still regarded as such by the US government, despite the obvious problems of policing the export of software over the network. Intelligence agencies such as the NSA, despite being non-committal in public, are anxious to maintain a strong hold on encryption - and de-encryption - techniques.

But, running contrary to

the concerns of govern-ments, individuals con-cerned with privacy and civil rights have fought against exclusive government control of encryption. One of them caused a minor revolution in cryptoghands. Public key encryption uses

raphy during the 1970s. Whitfield Diffle, a mathematician working at the Stan-ford Research Institute, concaived the idea of public key cryptography. In place of the traditional

single-key sucryption that every secret agency had used, he proposed a dual-key approach which made it much simpler to encrypt

tional encryption methods is Technology (MIT), intro-

that they rely upon both the sender and the receiver of an encoded message having access to the key - in itself a security problem. There is always a danger that the key will fall into the wrong

two keys - a public key, available to anyone for encoding messages and a private key for decoding them. This means that anyone can encrypt a message with the public key - but only the recipient, using the private key, can decode it.

In 1977, RSA Data Security, a company founded by three scientists from the The problem with tradi- Massachusetts Institute of

duced the first public key cryptography software and obtained US patents for the technique.

Meanwhile, Phil Zimmerman, an American computer programmer and political activist set about writing his own version of public key encryption, eventually publishing his software for per-sonal computers in 1991. Under the name 'Pretty Good Privacy (PGP), he distributed it freely on US computer 'bulletin boards' and inevitably, it found its way on to the Internet and became available internationally.

The arrival of PGP fuelled

Continued on next page

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Solutions for a small planet

Technology in the office

■ Remote access • By George Black

Logging on from afar

As the market grows, remote access systems are becoming faster and easier to use

The huge increase in the number of mobile and home workers has made remote access systems one of the fastestgrowing sectors of information technology. It has become more common for people to work where it suits them, using laptop computers connected by modems to the telephone lines to keep in contact with their offices.

ISDN (Integrated Services Digital Network) is starting to replace modems and is being beavily promoted by vendors for its superior per formance and security.

A network manager seeking to enable staff to access corporate client/server systems from anywhere they like will probably need new software at both the client and server ends and possibly new hardware at the server end. The market for server-based remote access systems grew 262 per cent last year, according to International Data Corporation, IDC's research analyst Mr Camiel Camps says this was because systems began to be installed companywide, particularly for access to the Internet.

The market is now being spurred by the development of remote node concentrators, devices which can greatly case the implementation of company-wide remote access. At the client end, the growth rate is a healthy 30 per cent a year. This part of the market is dominated by Symantec's pcAnywhere which has around a 60 per cent market

Client access products, of which there are many, are usually very cheap and can be used on computers with little memory, but are often limited in their functionality, and especially security. At the server end, many

software systems are supplied by the leading network systems vendors such Cisco. These are still relatively cheap and more flexible, but still may not provide all the functionality that is needed. Some may need to be augmented with other software packages. particularly groupware such as Lotus Notes or Internet software from companies such as Netmanage

and Quarterdeck The more sophisticated and expensive systems, such as those sold by Shiva, are mainly proprietary, according to Ms Marina Smith, senior analyst with the Datapro consultancy. But she says the market is moving rapidly towards more standard solutions.

Many pitfalls

There are numerous pitfalls for buyers. One is the incompatibility of equipment, notably some access servers with some modems. Another is the lack of expertise among resellers, especially with ISDN.

According to Mr Simon Robinson, marketing manager for network software supplier Attachmate, many basic packages fall down when put under pressure. They may be enough for a few users, but they do not scale up to hundreds or thousands of users, they do not provide security and they become unmanagea-

In the past few years, remote access systems have been getting easier to use as well as performing faster and more reliably. Many users do not want to have to understand anything about the technology, and with some of the latest products they do not have to. Some are designed so that a sales person can load up the software in a hotel room and start to use the system in just a few min-

Users can get faster updates to their files by of these packages might receiving only the parts well cope with the task.

combined hardware and which have been changed since the last contact, instead of the whole file. This is one of the secrets of as 3Com. Bay Networks and success for remote access and can allow downloading of the information needed in a few minutes instead of hours.

Mr Christopher Colisi. vice-president of Symantec's communications products division, says many of the benefits of the latest software will come to users when they upgrade to the Microsoft Windows 95 or NT (New Technology) operating system. Performance of the 32-bit version of pcAnywhere is 25 per cent faster than its 16-bit predecessor, says Colisi. It has been modified to cope with Internet access and deploys Microsoft's OLE (Object Linking and Embedding) object software to improve ease-of-use and reduce the amount of training which users need

from network managers. Users now have a choice between using the in-built remote access facilities of Windows 95 or NT, adding NetWare Connect to their Novell NetWare network operating system or taking on a specialised software package which may have more features such as security. Those who are particularly concerned about who may be getting into their networks and looking at their data may well prefer Windows NT to Windows 95 for its superior security.

Prices of remote access software products vary greatly, from as little as £50 to several thousand pounds. Buyers should start by deciding what volume of data they need to access and how fast they need to do so, advises Mr John Birbeck, managing director of the remote access division of Bay Networks. Simpler systems can be sufficient to deliver small amounts of data at relatively low speed. up to a limit of around 20,000 bits per second. If the requirement is only to pick up a few e-mail messages from time to time, then one

The future of fax in an era of e-mail . By John Kavanagh

Still a preference for paper

Fax remains the most popular medium for messages, although e-mail is far cheaper

The whirring and beeping of a fax machine might seem outdated in these days of PC communication, but fax has a trump card: people still prefer to get messages on paper. This finding from new research shows that human nature is just as important

to the future of fax as current developments aimed at producing faster and more versatile machines.

The survey of UK business users by fax supplier Pitney Bowes shows that two-thirds prefer to receive messages on paper rather than electronically.

Fax also scores relatively well in terms of generating a fast response from the person contacted: 48 per cent of users said the telephone got the quickest response, 38 per cent voted for fax and 8 per cent for e-mail.

hese findings need to be viewed against the fact that fax is well-established, with 70m machines worldwide. Pitney Bowes says 5m new machines are installed each year and 55 per cent of users increase their use from year to year. Its survey also suggests that the real challenge from e-mail is yet to come: only 13 per cent of business computer users have Internet access, although 77 per cent are linked to internal networks.

However, anecdotal evidence suggests that there is no getting away from the appeal of paper.
"Fax fits in with the way

people work," says Pitney Bowes vice-president Ms Deborah Sauer.

"People like paper, because it's transportable, you can read it on the train, you can scribble on it and fax it back. The preference for paper is also evidenced by the number of people you see printing out their e-mails. In addition, with e-mail you have to go into the system to get your mes-

Mr Lester Davis, fax product manager at NEC, agrees: "If someone sends you an

have to retrieve it and decode it and if you print it out it still might not be an exact replica of the original, with the exact layout and other features. Fax is, in effect, remote copying, so

every copy is the same." Users also see fax as the most reliable method of delivering messages, beating even the telephone. In the Pitney Bowes survey 45 per cent of business users voted for fax as the most reliable method, with 37 per cent preferring the telephone.

Mr Davis at NEC supports this finding, too: "You can scribble a fax message and you know it will arrive immediately, but e-mail might take a day or more and it's some time before you know if there's a prob-

However, companies are ignoring one big issue on which e-mail wins; cost. The Pitney Bowes research that the average annual telephone bill for big UK companies is £25m with half coming from fax

In addition, transmission accounts for less than a third of fax costs, according to a separate US study by Davidson Consulting, which Pitney Bowes itself high-

Over three years, telephone charges account for 32 per cent, purchase price 14 per cent, and supplies 4 per cent - with the other 50 per

e-mail attachment or file you cent coming from the labour rier (overnight), 40p by fax, onus is on them to connect costs of going to and from a machine, queuing and oper-

ating the equipment. Ms Bauer at Pitney Bowes says better training can reduce this last cost: only 10 per cent of users had been trained. Users are ignorant



Delegrath Sauer: "Fax fitts in with the way people work"

broadcasting to several recipients, she says; instead they key the number and feed the document for each one individually.

Even so, costs are a weapon now being seized on by companies in the Internet huginess

The Internet service provider Unnet Pipex says delivering a 10-page document in the UK from Cambridge to London costs £27.80 by cou-

15p by e-mail. Sending the same document to the US costs £2 by fax, £1.56 by post but still only 15p by e-mail.

Software and services companies are now marketing various products which seek to cut costs by combining fax, PCs and telecoms. For example, Delrina, which supplies software for sending a fax directly from a PC, has now added a £200 scanner to enable users to enter drawings and other paper documents and add them to their

few companies are going further: a new Company called Jfax gives customers a personal fax number which receives incoming faxes into its computer, where they are held as e-mail attachments. The service is £8 a month, including 100 messages; after that the charge is 15p per mes-

"With Jfax, faxes are sent to people rather than to par-ticular machines," says director Mr Richard Bennett. "People can check their faxes, e-mail and voicemail from anywhere, for example by linking from a portable

PC in a hotel room. He sees the service being especially useful for people who are often away from the office or who work from home: they do not need a fax machine or a dedicated telephone line, although the

38p by post (overnight) and to the service to see if any messages are waiting.

However, fax machine suppliers themselves are not standing still. Machines using plain paper are now taking over, and combinations of printer, copier and fax in the same device are

fast appearing. Processors are being built into top-range machines to enable suppliers to customise them; for example to enable machines to store incoming faxes in memory and transmit them to a PC used by someone dialling in from a remote site.

Last month, Pitney Bowes became the first supplier to launch a machine which can transmit at 33.6 kilobits a second, more than three times the 9.6kbits of most fax machines currently installed. This follows recent agreement on a new international telecoms standard.

The company claims that these higher speeds, plus new data compression and error correction techniques can cut those annual £12.5m fax telephone bills by up to

85 per cent. But with all the new features, the enduring attraction of fax in the supposedly electronic office comes back to the paper it produces. As Mr Davis at NEC puts it: "Scanning and sending physical documents will be with us for a long time yet while offices are still based so

Electronic whiteboards . By Nusia Moren

Latest trend in teamwork

Boards are now software driven, with shared work appearing on each team member's PC

he electronic whiteboard is emerging as the technology which will transform the persona computer from a personal productivity tool into one which supports collaborative working. Individual work on a PC can become group work.

The original concept for the electronic whiteboard was as a free standing, or wall mounted piece of equipment which would be a direct replacement for blackboards, or whiteboards, in meeting rooms. Now it has been scaled down to a deskempreral which acts a a shared piece of electronic paper. And the trend is that, rather than being separate pieces of hardware, electronic whiteboards will be software elements of collaborative working packages, with the shared work appearing simultaneously on the screen of each PC.

The software approach to whiteboards was endorsed by Microsoft in its Netmesting collaboration package, released in August this year in conjunction with version 8.0 of the company's Internet Explorer browser. The Netmeeting software supports the emerging industry standard for electronic whiteboards, which is known as T120. This means Netmeeting users can share whiteboards with users of other

T120-compliant packages. Like many of the concepts that have made computers easier to use, the electronic whiteboard was invented by Xerox, at its research centre in Palo Alto, California. The

1990s, was inspired by research into how computers can be used by groups to work co-operatively. Richard Bruce of Xerox who led the project says: "Having five workstations networked and using the same software, won't help people to work as a team. There can be no group leader, and people tend to withdraw into their own activities, because each individual is Iocused on a

separate screen. On the basis of this observation, Xerox conceived its electronic whiteboard, called Liveboard, as a computer to support collaborative work and meetings. Users can write or draw directly onto the 5st x 5st screen, creating electronic documents that can be seen and annotated by people in the same room, or by people working on a networked Liveboard anywhere in the world. The screen images can be printed out to provide participants with an instant record of the meeting, or saved to a computer file.

Research by Xerox also pointed to a technology imbalance whereby people were spending 30-70 per cent of their time in meeting rooms that were not equipped with the technology they rely on at their desks. Liveboard overcomes this by allowing company databases, individual files and other resources to be accessed, and worked on, in

the same way as on a PC. While Liveboard has its own built-in computer, electronic whitehoards are now available as peripherals to link into any existing PC. An example of this is Softboard, from Microfield Graphics, of Beaverton, Ohio. Softboard is plugged into a PC using a standard cable and the software to operate it is loaded

into the computer. Users

development, in the early write on Softboard with bar coded pens which are tracked by an infrared laser system. The data is sent to the PC in real time, and the corresponding image appears on the computer screen. Although screen images can be stored and retrieved, neither Softboard or Liveboard are capable of handwriting recognition handwriting cannot be converted into computer data. Electronic Whitehoards are

now becoming a key feature of videoconferencing. In September, Microfield Graphics announced it was to integrate Softboard with Picturetalk Inc's video conferencing systems. Picturetalk already provides a way for people to meet virtually, instead of physically, to share visual content on a variety of client platforms, says Joseph Salesky, CEO of Picturetalk, California. Now, with the addition of Softboard products, users can include freehand input. Prepared content such as slides and text documents can be shared, as can freehand notes and diagrams

written in a meeting. nother videoconferencing company, PictureTel, is adopting a similar approach with its GroupView projector. Images projected in a video conference at one site can be simultaneously transmitted to a remote location. During a meeting these images can be annotated, and the changes transmitted

between locations. Although they make it easier for team members in different locations to work collaboratively, Ashim Pal, Senior consultant at Ovum the IT market research consultancy, says that for the moment electronic whiteuct. The cost of electronic whiteboards means they can only be justified in high impact applications. (The PictureTel projector, for example, has a UK list price of just over £8.000).

One example of appropriate use would be if design teams in remote locations worked together to discuss how one change to a design interacts with another. In this case the cost would be justified by reduced time to market, says Mr Pal.

He believes whiteboards will come into widespread use as a software element of videoconferencing packages. For the present, rather than writing freehand, users will rely on PC drawing tools to make screen inputs during the videoconference, but in future it should be possible to make inputs using a laser pen on the screen of the PC.

Indeed, there is evidence encing, users may find the whiteboard more useful than the video element according to Greg Craven, Business Development Manager of Videolabs Inc. The company's desktop video and audio conferencing system includes the CU-SeeMe whiteboard software from White Pine Software Inc. enabling users to share graphics and data. If you are working with people you know it is more important to hear them, and share screens with them, than it is to be eyeball to eyeball, says Mr Cravan.

This is particularly true of videoconferencing over the Internet, where the limited capacity of much of the communications network makes Video transmission too slow to be useful in business applications. "Most users of our videoconferencing systems are finding they use \$ the electronic whiteboard boards remain a niche prod- more than they expected to." save Mr Craven.

Data encryption anomalies

Continued from page 5

the encryption controversy even further - leading to widespread paranoia among government agencies, both in the US and elsewhere. Zimmerman has been vili-fied both by the security agencies - which see his work as dangerous - and by RSA Data Security, which sees PGP as a threat to its commercial interests.

Despite this, government attitudes to encryption vary. "There are three different approaches," says Mr Neil Barrett, a senior consultant from Bull Information Systems who specialises in security. "The US model sees cryptography as tradeable goods and, at least within its borders, it is not primarily aimed at controlling use. The US is fairly relaxed about citizens using security

within its borders. "By contrast, the French

model does not allow encryption. If you want to send encrypted messages over the French PTT lines, you must have a licence, which is very difficult to get. Only banks and credit card companies and one or two exceptions

have a licence."

Mr Barrett goes on to describe the third - and perhaps the most interesting approach as adopted in Britain: "The UK's approach is relatively free and easy. I think there is a feeling that the UK's long history of success in code-cracking makes the security services confident about being able to break through any encryption scheme. In addition, the criminal law enforces the rights of government agencles. If they want to decode encrypted data, they can insist that the key is surren-

dered - otherwise the indi-

court.

vidual is in contempt of

In his recent book, The State of the Cybernation, Mr Barrett examines these issues in greater detail and concludes that the use of data encryption will become more widespread - especially as companies use the network for financial transactions.

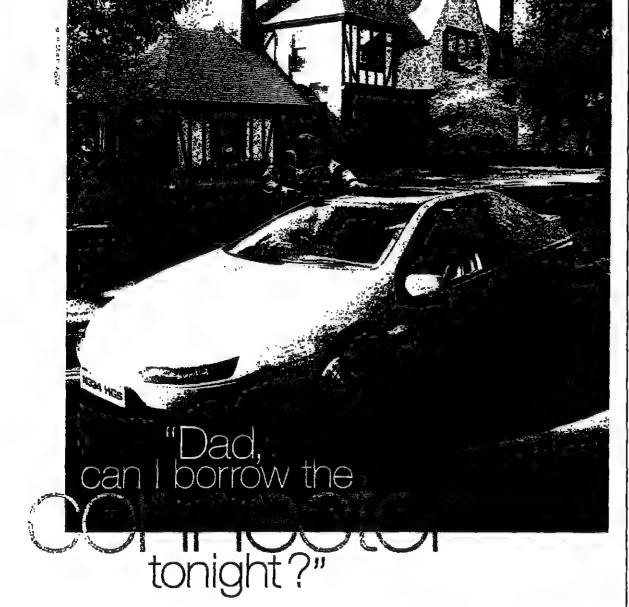
The different approaches of national governments obviously causes problems: companies and individuals wanting to encrypt data and send it across national borders must somehow cope with the anomalies.

Commercial software suppliers have pressed ahead with the introduction of mostly based on public key cryptography. Netscape, the top 'browser' software supplier for example has recently extended the Secure Sockets Layer (SSL) encryption scheme for Internet communications to use a 56

character key to increase data security and Microsoft has introduced the Private Communications Technology (PCT) protocol.

The most important step. however, has come from outside the software industry. Credit card companies Visa and Mastercard have devised the Secure Electronic Transaction (SET) standard for commercial transaction on the Internet. Now widely supported, SET uses public key cryptography to safeguard credit card transactions over the Internet.

"Although it is still early days, it seems likely that SET will be the way things encryption techniques. go on the Internet. It has already gained a lot of support both from financial organisations and software suppliers. In the long-term. it will be what brings confldence to commercial users of the Internet," says Mr Bar-



Once, automobiles were mechanical. Now, they're also electronic. Equipped with computerized fuel injection, airbugs, entertainment and security systems, even satellite navigation units. . Once, AMP was a connector company. Now, we're a company of many technologies, linking sensors, switches, optoelectronics, circuit boards, wireless components, and connectors into interconnection subsystems. And

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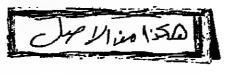
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Connecting

at a





> (former systems and technology businesses of AT&T, plus Bell Labs, with 125 years experience in making the things that make communications work)

nomalies

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Publish and be better off

Digital technology means business documents are now cheaper to reproduce

he arrival of digital printing-on-demand is changing the nature and economics of the publishing business

New machines from Xerox and its arch-rival, Kodak, 250. This means that if remove the need for complex and difficult pre-press work and create, capture, store and distribute documents digitally. Typically, offset printing is a multi-step process involving creating, mak-ing ready, collating, finishing, storing and distributing a document. Digital on-demand printing, by contrast, is a single process.

Its advocates claim that on-demand printing means a company needs only print the copies it actually requires, when it requires them. It is more cost effec-tive than traditional offset printing for shorter runs of up to about 1,000 copies which currently account for around 10 per cent of all print jobs. In fact, print costs are estimated to represent just 6 per cent of total production publishing costs, the "hidden bulk" includes manpower, inventories and

Crucially, Mr Pierre Danon, senior vice president of Xerox's document production systems, says on-demand printing means that only the copies required for immediate use are printed. That eliminates the need for expensive storage and warehousing - which can cost four times as much as printing itself. Conventional printing has

a minimum run of around actual demand is for fewer copies, some will remain unsold. "In many ways, digital printing takes the risk out of publishing and speeds up cash flow," says one printing company that has adopted digital on-demand printing, "We recently digitally produced a highly speed book for a customer whose potential sales barely stretched to 100."

In the language of the industry, digital on-demand printing means "no more dead horses in the ware-

New printing-on-demand machines also highlight the move towards more cost effective integrated multifunctional digital devices. For example, Xerox's Docu-Tech Production Publisher series of machines, first introduced six years ago. integrate scanning, network



digital photoopler. This high-speed model, the 7050, is for networks

Using dial-up modem lines,

satellite up-links. Internet access and advanced networking functionality, users can also distribute and print the right document in the right place at the right time. The latest machines can also produce a print run of just a single copy. This means personalised books can be produced and singleissue textbooks, journals, course packs and papers have become a reality. Xerox argues that custom document publishing enhances

Documentation can be customised by product series input, digital processing, and model, and produced printing and on-line finish- and packaged on the spot,

ware that provides a short-

Brian Haines, electronic

boosts their productivity.

the customer relationship

and provides increased cus

tomer value.

eliminating inventory and Personalised patient infor-

mation can be immediately published for clinic, hospital and doctor, eliminating the paper-record mountains typical of most medical facilities. Overall, Xerox estimates that the number of "digital pages" published will increase at a compound annual growth rate of 29 per cent from 78bn last year to 216bn by 1993 and that digital printing will account for almost 30 per cent of overall production pages, compared with around 12 per cent in 1995. "As the concepts of print-for-one and distribute and-print proliferate, the

E Call centres . By Michael Dempsey

Phone services transformed

Traditional telephone systems are enhanced with smart software

all centres have entered the public d consciousness through the explosion in direct selling operations over the phone. The IT industry was quick to claim credit for the successful debut of UK companies like First Direct, a Midland Bank owned telephone financial services operation, or the Direct Line

insurance service.
Direct Line sold motor insurance directly over the phone and then rapidly expanded into broader financial products. The downward spiral in the price of computer processing power had freed these organisations of the need for a huge staff sifting through paperwork, so the IT sector argument ran.

It was true that peither of these operations would have taken-off without comparatively cheap hardware, using reliable software to turn over the data generated by mass contact with the gen-

eral public. But until recently, the more obvious intervention of technology, ordering the management of incoming calls and drawing down information from computer databases to boost the telephone operators sales

stance, has been ignored. Suddenly, the economic potential of harnessing smart software to the old-fashioned telephone exchange has dawned on companies across the globe. One sure sign of the call centre's cohanced status is the new title bestowed on staff who answer the phone. Increasingly these are called agents, rather than opera-

will change hands due to relying on help desk softtelephone transactions in the US every year by 2000. It cut to effective advice and is easy to see how business of this magnitude deserves new job titles. Add case study to this introduction. In the UK, when National Westminster Bank relocated part of its operations from

London to Harrogate in Yorkshire, it exploited a favourable differential in

banking services senior executive at NatWest, says the thinking behind the Harro-gate Bankline installation is minimum paper and maximum technology". NatWest has spent over £100,000 on help-desk programmes so property prices. Leaving the far, and expects to pay out City of London reduced that much again before com-



Brian Haines of NatWest's electronic banking services, holds the

rental from \$60 a sq ft to \$7. At the same time, it took the opportunity to beef up the technology behind Bankline. its desktop banking service for corporate customers. Bankline allows corporates to conduct their accounts remotely, specifying payment details over the phone.

Some 27,000 companies use the service, but the individual who accesses the system can be a finance director or a shipping clerk, depending on approved access and the size of the customer. As with any computer-based service. the end-user has scope for queries. NatWest's Bankline The US Direct Marketing help-desk takes 1,200 such Association reckons \$599bn calls every day. These are worth of goods and services dealt with by 34 operators.

pleting a system that should see it past the end of the

While the bank anticipates Bankline tripling its customer base to 75,000. Mr Haines insists the help desk will not grow beyond 50 stull.

at a premium. Californiabased software house inference deals in what UK managing director Philip Padfield calls "a platform for knowledge". The \$30m inferencapsulates the day-to-day processes of the customers' case-based reasoning soft-

So, tools that multiply the power of the individual are ence sells software that business. Buying a copy of this programme, known as number of pages eligible for printing will

says Xerox.

ting your platform into place. Mr Padfield is quick to

stress that buying a pro-

not mean taking on a huge

technical burden. "Your own

people act as authors for the

system, but it's not quite as

onerous as it sounds. You

are not writing the software

in code. You create an appli-

cation by pointing and click-

He claims that inference

can take staff from an opera-

tion such as a help-desk and

train them to be "knowledge

authors" in a couple of days

 "Inference worked with NatWest to create a help-

centre where one click on

the generic problem, such a

pointing the mouse to a

graphic for modems, pro-

duces a screen of guidance

for the Harrogate phoneline

Bankline is currently

expanding from a base of

cash management services

to an ambitious offering of

payment, treasury and inter-

national management elec-

tronic banking. The help-

desk relies on inference to

meet its target of "one call

only" resolution of problems.

by Harrogate fall into a cate-

IT suppliers as "read the

manual" or RTM. These calls

represent the expectation of

average users who have bet-

ter things to do than wade

through manuals and

assume the service-provider

can sort out their problem in

By inserting software that

entry into the bank's own

keeping abreast of the cus-

banking for domestic cus-

publicity, but at Harrogate

keep corporate services run-

the space of a phone call.

Many of the calls fielded

ry of inquiry known to all

gramme from Inference does

Case study: on demand printing . By Paul Taylor

Panasonic reduces manual labour

anasonic's television well ahead of production. ity in Cardiff, Wales, claims it has significantly cut costs by switching its print production from commercial printers to facilities managed on-site using Xerox's DocuTech on-demand printing equipment.

The company says it has made savings of £50,000 a year by reducing wastage and that production lead times have been cut from 12 weeks to just two days. nies, manuals are an impor-

As for many other compatant part of Panasonic's manufacturing process and have to be booked into the manufacturing resource

manufacturing facil- The Cardiff factory manufactures televisions and microwave ovens for European markets and is a prime example of how to join document production seamlessly into manufacturing.

The company produces 50 different standard models that can vary widely in specification from market to market. A model run can be from a minimum of 500 units up to 10,000, with a To co-ordinate its outside typical life cycle of two

Each TV set leaves the factory with a registration document, guarantee card and a user-manual that has been translated into various European languages. The documentation has to be wise the whole manufacturing process would be held

Before introducing its in-house on-demand publishing system, Panasonic contracted the work out. We used up to four commercial printers to produce the manuals, which were printed in black and white on sami-glossy paper stock. print source, the company generated a full TV set pro-duction forecast and then a three-month MRP schedule that the printer had to adhere to. Typical lead times were 12 weeks," says Mike Palfrey, Panasonic's

senior technical buyer.Ineviproduced on time - other tably, the number of televi sions coming off the produc tion line differs from the forecast. In addition, the use of outside printers made it difficult for Panasonic to update documentation quickly and the lack of flexibility meant Panasonic had to dispose of out-of-date manuals, worth about \$30,000 each year. geterm

To overcome these limita tions, Panasonic has installed a Rank Xerox DocuTech digital publishing system. "By switching to an in-house digital print system, we have print capacity which is flexible enough to meet future demand," says

Document management Sychologe Stack pening new doors

Boosted by the spread of intranets, document management systems give wider access to business information

ment is starting to become recognised as an essential component of modern office technology. With imaging, workflow and groupware systems, it promises to make available a much wider range of data to many more people. At the same time it will replace old bureaucratic ways of work-

Playing the role of curporate librarian, document management systems take charge of text and graphics produced by word-processing software and spreadsheets. They will be increasingly able to handle audio and video components. Overshadowed by groupware in the past few years, document management has only recently become recognised as an technology in its own

Before, it was seen as either a specialised system for heavy data processing iobs such as insurance claims, or as an aid to dasktop publishing for in-house rated brochures and the like. Law firms, being document-driven, were keen

Document management is by no means yet a clearly defined **market**

early adopters, but they were not followed by a rush of others. Now document manage-

ment software is being taken up by a much wider market. It may be used instead of or in addition to a corporate groupware system such as Lotus Notes, which offers only limited document management facilities. "It is starting to become a

part of the mainstream, though it is not quite there yet," says Ms Joanne Bonnett, Filenet's marketing programme manager for the Saros document management product. The sector is growing at 50

gives its own staff an instant best practice, NatWest is per cent a year and will reach \$1.2bn this year, tomer's needs. Electronic according to research from CAP Ventures. "The market tomers has received a lot of is moving into higher gear," commented Mr Rill Zoellick. its research director. All one large institution is recent research on the techapplying the lessons of consumer product support to nology points to it being poised for rapid growth. One example of its spread-

ing popularity is Royal Dutch Shell, which recently took a worldwide licence for 42,000 users of the Saros soft-

Another user is Abbey National, which has bought interleaf software to enable it to transmit documents to 16,000 users in its branches across the UK by satellite broadcast. The bank aims to save 21.7m in the first year of running the system and to re-coup the total cost of its investment within three ars. A third user is Ford Motors, which is using Documentum software to distribute information to its customers and dealers.

Interest in document management has been increasing largely because of the Internet, says Mr Alan Jeffries, European marketing director for interleaf. "It has made many more people aware of the volume of information which is available and which needs managing electroni-

cally," he says.
Mr John Newton, cofounder of Documentum and its vice-president of European marketing, agrees, adding: "It is the spread of intranets (corporate networks modelled on the Internet) which is now driving growth in the market."

Managers are also realising that vast amounts of computerised information are held by staff outside corporate databases and beyond any form of control. This may include financial plans. price lists, bid documents. technical drawings, contracts, company standards and policies and other information essential for the busi-

"If the person who created

the document does not turn up for work or the machine on which it was held fails and there is no copy, there is a crisis," says Filenet's Ms Bonnett. "Document management allows companies to overcome that situation." It is by no means yet a clearly defined market. Many companies operating in other parts of the software market have, or would like to have, a presence in ument management. This is clear from the number of mergers and acquisitions

which have taken place. The workflow and imaging systems vendor Filenet bought Saros; the network operating system company Novell bought SoftSolutions; the database vendor Informix bought Illustra, Potentially important new alliances were formed by OpenText with Odesta and CP Software Group with Uni- pearing.

plex. Documentum appears to be the market leader in terms of the power of its product, according to research group Ovum's evaluation, but research from Delphi puts Interleaf first in market share with 20 per cent, followed by PC Docs and IDI with 12 per cent

Most systems run in a client/server structure, with the user on a client machine requesting a document and the server searching for and delivering it. Increasingly the server employs 'object' software techniques to ease the re-use of existing soft-

Prices range from about 250 per user to about £500, depending on the scope of the functions; buyers have first to decide exactly what they may want to do with it. Ovum warns that prices for more complex products are unlikely to fall in the next few years, as vendors will be increasingly squeezed

by freeware or bundled document bandling functions from operating systems and database suppliers. This will prevent the specialists from gaining the mass sales which could produce those lower prices, says Ovum. Lack of standards is proba-

bly the biggest snag at present. Users cannot rely on the compatibility of different products, and standards. could greatly increase the use of the technology.

ODMA (the Open Document Management API, or Application Programming Interface) is becoming a more significant force, while the Document Management Alliance's specification may eventually be able to make ument management systems as routine as between e-mail systems.

However, at present it is the Internet which appears to have the most potential to impose standards on competing producers.

A Database management systems

The goal posts have moved

Influenced by the Internet, the role of the company database is changing. writes Philip Manchester

or the last twenty years, database management systems have maintained so-called 'structured' data - customer tions will be a primary account codes, sales figures, outstanding balances and so on. But now company databases are increasingly called upon to cope with unstrucimages and multimedia data.

New concepts such as document management and data warehousing are also changing the uses to which data is put. And the growth of Internet-based systems has altered the way data is viewed. The flat 'hypertext' model used on the World-Wide Web is replacing the conventional view of data as a strict hierarchy where, say, a customer account is stored at the top of a pyramid with orders and involces

Inevitably, these changes demand new ways of storing and accessing data. US researcher Meta Group, for example, points out that the traditional division between so-called operational data orders, invoices and so on and data for decision-making, such as sales trends and buying patterns, is disap-

introduction.

"While most users are experimenting with this hybrid application form. 1998/99, decisional applicameans of achieving competitive business advantage

600 600

through IT." Meta Group Established database software suppliers, are faced. therefore, with the problem of combining traditional methods of storing and accessing data with more modern approaches. Oracle, the market leader, has set out to achieve this with extensions to its established relational data base soft-

ware. "Users are increasingly confronted with information overload and are looking for new ways of coping with data. The use of the internet is bringing in a plethora of thematic searches, instead of simple word searches, and the traditional tabular view used in the relational database is not appropriate." explains Mr Andrew Bailey. product marketing manager at Oracle UK.

"We no longer think of ourselves as a relational database company. The tra-

Continued on facing page

■ Doing away with wires • By Michael Dempsey

The idea of dispensing with the chaos of wiring that links computer networks is very attractive. Architects have learned to design wiring ducts into new buildings, but running kilometres of cable through an old construction can be a nightmare. "the wireless Lan" (local area network), flashing data between machines using radio waves, has an instant appeal to anyone trying to reconcile high technology with listed or ancient

Not every computer network is a potential convert to wireless connections, but some networking specialists have spotted a large market in wireless technology.

Xircom is a \$136m group: it has begun deploying radio technology connecting portable notebook computers Beauton, a hospital uses this technology for bedside patient care, doctors and nurses accessing files with a hand - held terminal, A credit-card sized insert into the spare slot normally occupied by a modem card is all it once, the process might be slow." takes to let the portable PC use an

Computers linked by radio waves

Wireless connections offer greater flexibility to office planners - and encourage executive e-mail addicts

Another Xircom client is the German police force in Saxony. Investigators

following up every incident, from mur- PC card, is low and practical. Each PC ders to car accidents, traditionally carried 150 forms with them at any time. Now that bureaucracy in held on PC notebook: police officers download their field reports using Xircom cards. The appeal of a wireless connection

here is that officers can get on to the main network without needing an extra physical 'station' to sit at; with one access point, a PC receiving the to networks. In the French town of signals, up to 12 users can download material simultaneously. But John Lindsay, a marketing manager with Xircom in Belgium, admits that this arrangement does have its drawbacks: "With a lot of users downloading at for electronic mail, according to Lind-

less Lan sites want to send and access conventional files of written data. And the cost of Netwave, Xircom's wireless card retails at \$495, with the radio interface to the main, physical network, costing \$1,850,

Lindsay emphasises the robust appeal of his cards: "We have compact cards - they don't have any protruding wires, which is important for users such as the police and doctors."

The wireless business is still mostly confined to vertical markets, says Lindsay - "but it's useful to people who want to increase their productivity". He cites "the higher executive category" as a target group: main board members develop an insatiable appetite say, and wireless local networks could Multimedia applications, with a rich allow them to read their latest mes-marketplace is worth \$200m worldwide. infra-red frequency to link up to the mix of video images, can be very taxing sages at a glance, even in a board meet- But Rich Redelfs, marketing director

larger, conventional hardwired net- for radio transmission. But most wire- ing. One very practical use of the wire- for mobile products, says this figure less Lan, involving Xircom's cards, was demonstrated in Austria this year at the annual engineering conference of PC-maker Compaq. The company presented its entire strategy for working with third parties through 30 presenters in ten different rooms: the wireless Lan shared files between attendees' laptop PCs, and every presentation was downloaded from a central server

> The viability of wireless Lans has just been underlined by a management buy-out at Xircom. The Netwave wireless product line was purchased by Xircom's chief financial officer. Jerry Ulrich, and the US company,

> Another US group, 3Com, turns over \$2.3bn in the global data networking arena. It estimates the wireless Lan

should grow to \$1bn by 1999 - "more and more products demand linking through radio frequencies". But he also confirms that this

demand is emerging from a select number of vertical markets such as warehousing, or retail point-of-sale systems. As Redelfs notes, a wireless connection between electronic tills and stock checking computers allows a supermarket to easily reconfigure a store without worrying about the complexity of installing new wiring.

3Com is one of 15 participants in the US Wireless Lan Alliance. WLA president Jeff Abramowitz explains how his members can recoup an investment in R&D and make a profit by selling networking cards, costing \$500 - \$1,000. "People think the networking card can't be big business with this kind of retail price. But if you sell a million of them, your investment is worthwhile.

This market is growing at 53 per cent a

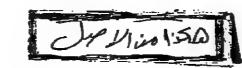
The Chicago Board of Exchange is an example of a location where a large number of itinerant dealers roam the Exchange floor and benefit from micro wave links from their PCs to central processors.

Novell, the \$2.8bn networking glant, which made its name writing software that keeps most office Lans up and running, has kept a weather eye on the emergence of this market. It has concentrated on sending data through a radio system employed for some mobile phones and known as Global System

Mobile, or GSM. Simon Palmer, product manager for Novell's mobile systems, says his company is exploring the use of GSM links to data networks with Sweden's Volvo

Cars and national post office. Last June, Novell demonstrated a link-up of 40 laptop PCs at an exhibition in Birmingham: the networking currency was radio ethernet - an established and proven Lan technology was "hitching a ride" on the latest way to link computers.

New directions: see page 11



er in the

ual labour

Technology in the office

etermined to dominate

Despite innovations from Sun, Oracle and Netscape, Microsoft leads the office software market by a distance

over the market for personal computer software is so extensive that the company is often depicted as the ruler of the software world.

Last year an Internet joker even suggested that Microsoft may be reaching beyond this world to try to dominate the heavens. A widely distributed fake press release announced the company's acquisition of the Roman Catholic church

Microsoft did not appreciate the gag, but for many in the software industry who have felt the effects of the company's growing ambi-tions, it hit the mark.

Microsoft is now the world eader in many segments of the PC software market. Its strengths, and biggest revenue generators, are the Windows operating system and the Office suite of business applications.

Microsoft holds an 89 per cent share of the world manket for personal computer

icrosoft's influence research group. About 87 per cent of all PC operating systems sold this year will be Microsoft's Windows, the researchers predict, while the older MS-DOS still accounts for about two per cent of the market.

Apple Computer's Macintosh operating system comes a distant second with just over six per cent, while IBM's OS/2 has achieved a share of just over two per

The picture is similar in the "suites" market for packages of office applications programs. Microsoft Office was the market leader with an 84.5 per cent market share in the second quarter of 1996, measured in revenues, according to Date-

Lotus' SmartSuite package with 7.8 per cent of the market. Corel, which recently acquired the Wordperfect subsidiary of Novell, has increased its share of the market rapidly, but still came in third with a 7.7 per

soft's Excel had an 80 per cent market share last year. In wordprocessors, Microsoft was far and away the market leader with about 70 per cent market share. Microsoft PowerPoint leads the field with 75 per cent market

In contrast, Microsoft is coming from behind in the market for Internet browser software, where Nescape Communications holds sway with a greater than 80 per cent market share. However, Microsoft's plans to incorporate its browser in a future version of Windows may enable the company to leapfrog its competitors.

One PC software company that has proven to be remarkably resilient to competition from Microsoft is Intuit, publisher of Quicken, the home banking and personal finance software; Despite intense competition In second place was IBM from Microsoft's Money program. Quicken remains the leader with a 78 per cent market share, according to PC Data, a US market research firm. Microsoft Money has a 23 per cent

> Both Intuit and Microsoft have launched new versions

grams over the past few per cent share of US retail weeks and the battle is now focused on forging marketagreements with banks. On this front, Microsoft appears to be moving ahead

Yet in some segments of the PC applications software market, Microsoft has only a small presence. Entertainment and games, for example, was the largest segment of the US consumer retail

Microsoft is gaining ground rapidly in the intranet field

software market last year. representing about 19 per cent of total sales. In this category, Microsoft had only a four per cent market share, according to the company's own data

Similarly in educational a seven per cent US retail market share last year. In the "reference" category for electronic encyclopedias, dictionaries, altases and the

In spreadsheets, Micro- of their personal finance pro- like, Microsoft claimed a 30 sales last year.

> While Microsoft continues to attack consumer markets. it is putting much of its efforts into expanding its role in the "enterprise" software sector with its Back Office suite of server products. Windows NT, Microsoft's operating system software for network servers, is the foundation of Back Office. It is gaining ground rapidly, particularly in the deployment of "intranets" office networks that adhere to the standards of the public Internet.

Can anything, or any other company stop the Microsoft behemoth? Many in the computer industry believe that Microsoft is unstoppable because it has greater resources than any of its individual competitors.

Yet Microsoft does face challenges. Sun Microsys-tems, the leading manufacturer of Internet servers, is capturing the attention of third party software developers with its Java progra ming language. On the back of Java's success. Sun has launched a range of related products that constitute a new computing 'platform' to



lings: RIS Gates. Microsoft chairman, towers over other contenders in the Dominating the proce

connete with PCs running Microsoft programs. Netscape Communica-tions, which leads the market for Internet browser proclash with Microsoft Even as Microsoft plans to incorversion of Windows, Netscape is expanding the capa-

bilities of its Internet pro-

gram to compete with

Then there is the Network Computer(NC). Promoted by chief executive of Oracle, the NC is a lower-cost alternaputers take off, they could pose another threat to Microsoft because they would probably deploy software developed by the company's

Microsoft is convinced. however, that the PC will remain the primary desktop computing system and chairman Mr BillGates dismisse it as a step backward in terms of technology.

For the foreseeable future however, Microsoft's dominant role in the software industry appears secure. Competition from Netscape Communications and others seems only to have hardened remain number one.

Web's impact

ditional relational view is just one component in a range of tools which we must give users. Other tools include ways to manage video data and things like spacial geographic information systems data. We have also built our ConText option for Oracle version 7 database to handle text."

Mr Bailey argues that companies want an integrated view of their data, no matter what the form or source: The obvious application of this kind of technology is in managing textual data document management. I don't see document management as a completely separate application. It is just more information and should come under the same regime as the standard structured data."

Increasingly, the Internst and the World Wide Web are becoming part of "a data continuum", particularly when it comes to managing unstructured data, he says.

the goal posts because it is so easy to deploy information applications. We have picked up on this and our InterOffice product now uses the Web to store documents and references.'

Other suppliers also see the internet as having an important role in managing unstructured data. Document management software company Documentum, for example, has recently re-oriented its product strategy to take account of this.

"Without question, the web is the new paradigm for corporate information delivery. But even though the web is effecting the way information is distributed, customer's information requirements haven't changed," says Mr Jeffrey Miller, president of Documentum. The cost of setting up Web site as part of the corporate network can range from \$60,000 to \$2m and the cost of maintaining the data can be as much as \$450,000 a

costs can be reduced by Site software. RightSite filters and assembles the data for web pages when required, thus ensuring that nsers are looking at the most

up-to-date version. FileNet, another document management software supplier has taken a similar approach with · its Saros@Mezzanine software:

"We see that the problems of keeping Web pages up to date as crucial to successful use of the Internet and Intranet systems. The problem with classic Web links is that they are static and you must rely on some one to update it. Our software links into the live document systems so Web pages will always be up to date,". explains Mr Karl Matthews, product marketing manager at FileNet UK.

He describes Saros@Mez zanine as an 'enterprise librarian' which can bring any kind of data together and distribute it through the internet and the Web. This has implications which go far beyond simple information retrieval and the use of the Internet as an expansion to the traditional database. It could change the way companies work both internally and with each other.

"We see the Internet primarily as a communications medium. But it provides a platform for us to deliver document management and workflow applications and lets us think about expanding workflow beyond the immediate organisation,

says Mr Matthews. The traditional corporate database is now being seen as more than just a place to store data. As a result of the spread of applications, based on the Net, it is being transformed into the foundation of a completely new method of carrying out business. While it is still early days, the first building blocks of this foundation are being

There's more to quality than meets the eye.

Quality can sometimes be difficult to quantify. With PCs, it's simple. The higher the quality, the lower the cost of ownership. Fujitsu ErgoPro PCs are designed to provide the highest levels of build quality and reliability, which means they are up and running faster and keep on running. But there are many other aspects of ErgoPro's focus on quality that help reduce costs.

Ergonomic keyboards, low emission monitors, low noise output and pin-sharp graphics are features that produce a more relaxed operating environment and hence improve end-user productivity. Comprehensive desk-top management facilities, pre-installed LAN software and plug-and-play connections make network control more effective and upgrading much easier.

High levels of security protection cause potential thieves to think twice and future-proof technology enables growth without system replacement.

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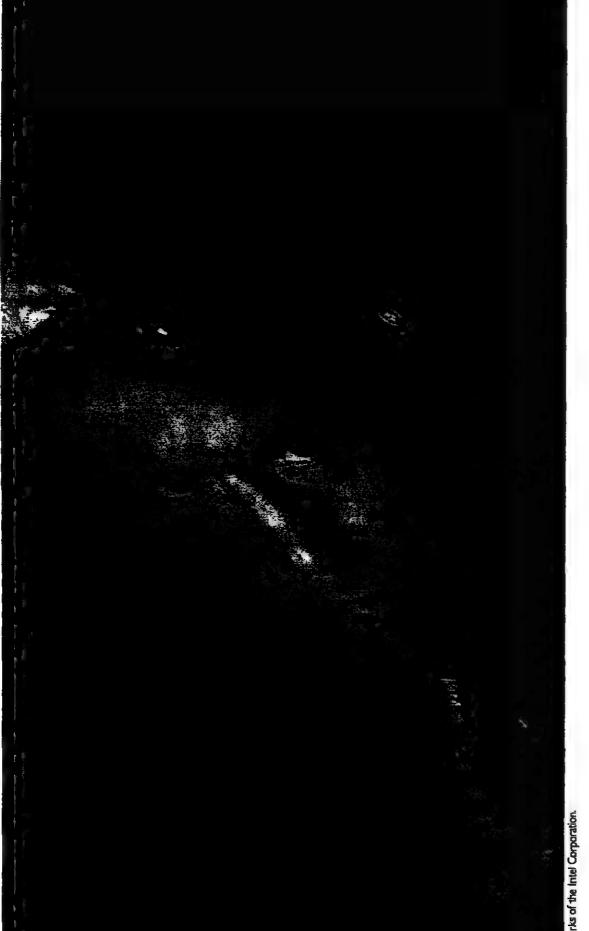
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Digging deep into the data mine

The analysis of business information is becoming increasingly sophisticated as orgainisations try to make the best use of databases

s competition becomes more intense, leading organisations are increasingly trying to use their data more aggressively in order to make smarter

Most large businesses have moved beyond paperbased reports to software tools which enable users to access data directly. However, they are increasingly moving beyond queries and reports to use interactive data analysis tools, such as multi-dimensional On-Line Analytical Processors (Olap), Enterprise Information Systems (EIS), data mining, data visualisation, desktop mapping and intelligent

There is a need to act more quickly to be competitive and make better use of information in databases." says Bernard Liataud, cofounder of Business Objects thitm: Unrun husinesenh. lects.com), the French enddor. "Companies want more

senior managers fed by ana- Holos." tised access and reporting." Business Objects has recently written its own

Olan analysis tool and launched the most comprehensive data mining partnership scheme in the industry. "Giving users access to information is the first step, but they need to analyse it. explains Mr Liataud. "Access, analysis and reporting are part of the same workflow. Olap is the easiest tool for users and is the widely accepted first step in

Olap technology has been available for many years, but is starting to be much more widely accepted. "Oracle's purchase of the Express Olap tool was a smart move and was the major event in the market," says Mr Eric Woods, senior consultant with analysts Ovum, (http:// www.ovum.com). "It has had an incredible gravitational pull and other vendors have taken similar steps, such as of their users to make more Informix purchasing Meta-

Multi-dimensional analysis and reporting is now seen as an essential way of analysing business information. says Mr Nigel Pendse, co-author of The OLAP Report (Business Intelligence, ISBN 1 898 085 21 8). "There have some extraordinary growth rates, such as Brio, trebling turnover in a year Business Objects have rewritten their whole product to add Olap technology. Business Objects 4.0 isn't just 3.0 with extensions." Business Objects' fiercest

competitor is Cognos (http:// www.cognos.com). one of the Olap pioneers, which is intending to bring data mining to the masses. "Users are recognising the need for a range of capabilities, so that they can understand information, as well as report it," says Mr Neal Hill, vice president for marketing.

"Olap is the next step after reporting, allowing users to explore their data. Data mining then acts as a software assistant which automates decisions. not just a few cube and Seagate buying their analysis and helps



sy-to-use analysis systems to make the data productive

them find hidden patterns in their data. The next logical step is forecasting, because managers want to know what the effect of a relationship could be, so we are adding that with 4Tune from Right Information Systems (http://www.4Thought.com)."

New and novel visualisation techniques would follow, in order to comprehend the full impact of forecasts, including mapping, says Mr Hill, "Once you have delivered a set of tools you will want to deliver the capability in software robot form, using intelligent agents. Two years ago we predicted that by 1999 our tools will watch your internal queries and automatically get related information from the Internet, which is the ultimate information source."

It is this move to bring more leading edge tools to users which is consolidating the products. Most of them have existed for some time. being marketed by small specialist vendors.

"Chief information officers will no longer tolerate tools which are not integrated," says Elizabeth Ireland, vice president of marketing at Mapinfo (http://www.mapin-fo.com), the desktop mapping vendor. "We are still in the early days, but with object technology there is an opportunity for software vendors to provide integrated suites

usiness Objects also sees the need for close integration: "We are partnering with seven data mining vendors, but will work more closely with one, because it needs to be fully integrated as part of a single workflow for the user." says Mr Liataud.

We are investigating new technologies, such as maps, drawings and alerts which can prompt the user for exceptions. We want to provide a universal decisionsupport functionality if we are to support the many ypes of users found in a large organisation. We have 10,000 at Shell, 8,000 at Dow Chemical and 6,000 at BT." Seagate Software (http://

own.seagate.com), whose Crystal reports is a widely used access tool, purchased the EIS, Olap and Data Mining product, Holos. "We plan to package the Holos Olap

server with basic non-customisable functionality which can be given to the masses," says Greg Kerfoot, president of Seagate's Information Management Group. "Intelligent agent technol-ogy is the most interesting."

says Mr Woods, "It expands analysis and increases automation to make it easier to deal with vast amounts of data, making users more productive." Comshare (http://www.com

share.com) has incorporated intelligent agents into their Commander Decision product which already includes an Olap, EIS and data min-

"We have created an object-oriented architecture into which these different features can be inserted, but which supplies a context for the user," says Mr Dennis Gangster, Comehare's chief technology officer. "For instance, we can insert a specific object just for sales analysis for brand managers in the consumer packaged goods industry. We are currently working with US research laboratories which are doing advanced research into data visualisation which we want to add just for users with very large databases."

Information Builders' (http://www.ibi.com) Focus Six visual information suite provides a set of tools in a managed desktop, which includes reporting, Olap, EIS, desktop mapping, data mining and data visualisa-

"We have to support the needs of novices, knowledgeable users and analysts," says Michael Corcoran, director of marketing. "The tool which can provide the most complete solution to data analysis is the tool which will be most widely Obviously, users are going

to need to learn how to use these new tools before they will be able to generate any competitive advantage. Cognos and IBM have founded Business Intelligence tional establishments with third parties. The information tools can also be tried out at the Informix Superstore or IBM's new Teraplex Information suites have a

lot to offer to organisations who need to improve their Worke recognition . By Philip Manchester

Now you're talking the PC understands

Speech recognition software is being added to standard applications

peech is going to be "the future of the user-interface with computers", says Ms Anne Marie Deroualt, worldwide executive for IBM's VoiceType speech recognition products.

"Development of the Internet will bring far more people in contact with computers and this will force the interface to develop. At the moment our minds are tuned to the graphical user interface but in the future we see speech as one component in a multi-mode interface," she explains. Speech recognition has

moved a long way from its rather shaky beginnings as a gimmick to the point where it is now a viable option on sktop personal computers. Only 10 years ago, speech recognition demanded the power of a massive mainframe. Now there is a growing range of products that need only a PC with a standard sound card to carry out usable speech recognition.

Ms Deroualt says IBM's VoiceType software works on a relatively standard PC with a Pentium processor. It recognises individual words as they are spoken, making it ideal for command-based applications such as navigating around an operating system. It can also be used for dictation into a standard word processing program - although pauses are required between words. IBM also has so-called continuous speech versions of the software - but like rival products from other suppliers - these are restricted to a specific context.

Now that usable speech processing is available on a PC, it is possible to add it to standard applications rather than working as a stand-elone technology.

Ms Deroualt says IBM is keen to see the VoiceType technology become part of a wide range of applications in much the same way that graphical user interfaces are currently used. It released a VoiceType toolkit to help resellers and other manufacturers build speech recognition into applications.

The UK software company Staffware bas, for example, added VoiceType to its workflow package so that users can control their work "vocally".

ward and there was little we had to do to our software,"explains Mr John Pvke, technical director at Staffware. "You can use it to instruct the program - call up files and the like. You can use it for dictation - or even to access the Internet." Mr Pyke is suitably impressed



by the accuracy of the technology and notes that it has no difficulty with regional accents: "It seems to understand my cockney accent which I suppose must be good for financial applications in the City."

Dragon Systems, a UKbased speech recognition specialist also sees the technology gaining wider application. Its DragonDictate software is now in its second generation and comes with a range of tools to help build it into applications.

We saw that developers wanted to add their own features to the basic recognition technology. They might want to restrict the words used to fill in a field on a form, for example," says Dr Melvyn Hunt, joint managing director of Dragon

mprovements in the latest version reduce the time taken to 'train' the systems to recognise individual voices from half an hour to a few minutes. "This means you have a usable system much quicker than before with up to 80 per cent accuracy. The system will, of course, continue to improve as it learns more about an individual's voice," says Dr Hint. He goes on to say that the

new version of DragonDictate can also recognise some continuous speech: "Numbers and post codes can be input continuously with the new version. This means, for example, you can put data into a spreadsheet much more quickly than typing." Mr Stephen Thompson,

managing director of Dragon reseller. Voice Write, says this feature is particularly attractive to financial institutions: "DragonDictate is very good for spreadsheet work. Once you are in the spreadsheet program it is so you can speak quite naturally." he says. Voice Write has installed DragonDictate systems at Barclays and Lloyds banks as well as many smaller companies. Mr Thompson says the technology has improved substantially: "We work with PC distributor Gateway

2000 at its London showroom

in Covent Garden. When we demonstrated the first version of DragonDictate, I had has improved so much with the new version that I can ad lib in the demonstrations and be confident that it will understand me.

Philips Speech Processing, part of the giant Philips company and pioneer of speech recognition, has also moved towards including its technology in other applications, As the first company to produce a commercial continuous speech recognition package in 1995, Philips has continued to build the range of "contexts" including various branches of medicine and legal applications.

"We have the radiology version now working in two hospitals and a growing amount of interest in areas such as banking and finance," says Mr Roger Holmes, general manager of Philips Speech Processing in the UK. "We are now promoting the use of the software with various partners to take the technology and include it in their existing applications," he continues.

Philips's systems works in a slightly different way from IBM Voice Type and Dragon-Dictate in that it sends the continuous speech signals to a special PC server attached to a local area network.

Mr Holmes notes that for the applications it is concentrating on in the medical sector, this "batch" approach is quite acceptable - "we recognise that there is an application for immediate real time recognition. But in radiology, for example, users do not need to see the words coming up on the screen as

While the day when we will be able to use natural speech as a substitute for a keyboard and a mouse is still some way off, the first only expecting zero to nine steps have been taken and erate as speech technology gains a wider market.

> Stephen Thompson at Voice Write. tel 0171 232 2030; Dragon Systems, 01242 678581; Philips, 01206 75555; Staffware, 01628 786300, (callers outside the UK delete 0. add exit code +44)

Charity will benefit

■ Software Developers' Challenge: London competition

One of Britain's oldest children's charities, the NSPCC, which protects those who may be at risk from abuse, will be the beneficiary of this year's "Software Developers' Challenge" which takes place during "SoftDev 96" at Olympia, London, later this

The National Society for the Protection of Children, founded 112 years ago, has requested a new human resources software programme to improve management and distribution skills at its 120 centres throughout the UK. Competing software

development teams at Soft-Dev. will have 24 hours to design the application to process data on the work of 1.250 NSPCC staff. The system will be used for the exchange of expertise in areas such as legal matters and fund-raising. RHEA International, the

software consultancy, based in Weybridge, will provide technical consultancy and judging for the competition Dr Alan Rushworth. RHEA's managing director, says: "The challenge, now ın its third year, offers an exciting opportunity for developers to show off their skills - and for suppliers to

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display rapid development

Last year, another charity - the Save the Children Fund - received a tailor-made purchase and supply software application. valued at £20,000 and developed by the challenge winner, Safe Computing.

This year's SoftDev event. being held on November 27 and 28, takes place alongside WebDev 96. The two events focus on software development for corporate aystems, the internet and the World Wide Web through a range of features which include three high-level conferences and exhibitions: ☐ The IntraDev'96, focusing

on the latest technologies for intranet development. ☐ The Dynamic Systems Development Method (DSDM) RAD conference. ☐ Visual Basic user-group conference. ☐ Enterprise application development tools.

Indian Software **Pavilion**

A new initiative at Soft-Dev'96 at Olympia will be the Indian Software Pavilion, sponsored by the Financial Times. This event brings together some of India's leading software development companies.

Mr Dewang Mehta, executive director of India's National Association of Software and Services Companies, Nasscom, will give the keynote speech for a two-day seminar programme presented by Indian companies.

Mr Mehta's work includes extensive lobying with central and state governments in India – as well as over-seas – on behalf of the Indian software industry which is growing at more than 50 per cent a year and where software exports have increased 20-fold in the last six years.

Revenues for India's software industry exceeded \$1.2bn in the past year and will be worth \$5bn a year by the end of the decade, says Mr Mehta.

☐ See also today's report on india's software industry, published separately wit the FT-IT Review. ☐ For details on the Software Developers' Challenge, call RHEA on +44 (0) 1932 830 551 (callers outside the UK delete 0. add exit code +44); for exhibition details. call Jon Howell at Interactive +44 (0) 181 541 5040.

SoftDev @



WebDev (18)

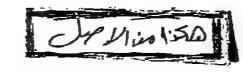


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Advanced Visual Systems	Dynamic Graphics & Visualisation on the Web	D 10.00	D 10.00
AimTech Europe Ltd	Pour on the JAVA, Hold the Programming	A 10.00	A 14.00
Applic UK Ltd	Interactive Applications on the Internet	A11.00	A 15.00
Borisod	Web Based Development with Borland IntraBul	der E12.00	
Business Systems Group	Get Protected - Internet & Intranet Security	B 11.00	8 15.00
Computer Associates Pic	Dynamic Data Publishing & Updates Across Into Technology	B 15.00	B 13.00 □
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Aucromedia	Bring Your Web Site Alive with Mecromedia Sho	ckwave	B 11.00
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Directions

Intranets

A four-page report on a concept that helps cut the cost of corporate computing



This "dealing deak of the tuture" was demonstrated last week in New York. The prototype, giving an ides of what traders will be using in the next decade, has been developed by Syntagra, the IT services and systems consultancy of BT and researchers at BT's laboratories in Martiesham in the UK. The desk of the future incorporates intranet facilities and shows how they can be developed in the global enterprise. This week the prototype is being demonstrated to the banking community in Edinburgh

■ Cross-platform communication . By Tom Foremski

wiring the office, the focus has changed from simply install-(Lans), to converting existing Lans to create intranets - internal networks that help give staff access to corporate information and simplify the distribution of data within the organisation.

Intranets provide staff with connections to the Internet: they also bring the potential to lower substantially the cost of computing within organisations through developments such as network computers - simple computing devices that promise to lower annual administrative costs.

The US computer trade magazine *infoWorld* found in a recent survey of businesses that the number of corporate intranets is growing dramatically. In a recent three-month period. 51 per cent of surveyed companies said they had built an intranet compared with about 39 per cent in an earlier survey. "Intranet implementation

is growing far more rapidly than anyone previously thought. Our last study showed that 13 per cent of our subscribers planned to implement- an intranet within 12 months, but this study shows a 31 per cent jump in intranet implementation in just 3 months. This level of significant growth in such a short period of time is truly amazing," says Jim Martin, CEO of InfoWorld Publishing Company.

The Info World survey reveals that the most popuintranét is to share or disan organisation. The web browser, either Netscape netWare product line. Navigator or Microsoft's Internet Explorer is becoming the standard user inter-

New ways to wire up the office

Many companies are converting their networks into intranets which will help cut the cost of computing

face for most intranet applications, replacing proprietary software that often required special training. Another advantage offered president of local area natworks and data communica-

by intranets is that the network technology is cross platform, so that it can be used with a wide variety of different types of computers. Since large organisations often have different types of computers that could include mainframes, minicomputers. Unix systems. IBM compatible PCs and Macintosh systems, tying such diverse platforms into a coherent network has been a problem. But Internet technologies such as the hypertext mark-up language (HTML) standard for text presentation, and the TCP/IP communications protocol, allow standard web browsers

share the same information. hereas on the Internet the speed of the network is a problem, most corporations have fast Ethernet Lans already in place, making it relatively easy to create an intranet.

to be used by virtually any

computer user to access and

Novell, which leads the market for Lan operating systems with its Netware lar reason for creating an products, has spotted the enormous market opportuseminate information within nity offered by intranets and recently introduced its Intra-

"IntranetWare will help NetWare users extend their existing network infrastruc-

ture to the internet and corporate intranets as they manage the transition from IPX-only network environments," says Lee Doyle, vice

firm International Data Corporation "As more NetWare customers take advantage of new Internet and intranet resources, they can add capabilities without having to sacrifice their existing investment in network

tions at US market research

Novell sees a big opportu-nity in helping more than 55m users of its Netware Lan software convert their existing networks to intranets.

IntranetWare includes a directory, security, routing, messaging, management. web publishing and file and print services. It adds a web server, Netscape Navigator browser, a gateway between networking protocols, a multiprotocol router for wide area networks, and support for telephony and multime-

Once an organisation has an intranet installed, it could take advantage of new developments such as net-work computers (NCs). Intel estimates that it costs an average of \$8,000 a year per PC-user in administrative

The idea behind NCs computers is to use an intranet to push most of the process-ing power deep within the

network and limit the ability of users to install their own software which has a risk of

While NCs will not replace desktop PCs, they will provide greater access to computing resources. And, cost ing as little as \$300-\$500 each, they will allow corporations to give more of their staff access to computers and corporate data.

The popularity of intranets skmifies a move away from the standard client/server network model; many companies are developing custom applications that make use of intranet technologies. At the US firm Sybase, for example, intranets are used to handle changes in human resources information.

"Formerly, if a staff member was moved or someone joined the company, they would have to fill out a lot forms which were then input into the computer system several days later. Now this is done by the staff member using an electronic form via a standard web browser,'

Other companies report that intranets allow their staff to set up their own web

With ready access to the Net, staff can more easily research information and communicate with peers in other locations without the restrictions of proprietary

Internet/Intranets: software and services . By Philip Manchester

Race is on to supply the needs of business users

The speed with which the concept of the Internet has moved from a fringe activity for enthusiasts to a serious proposition for business is staggering

even by the standards of the computer industry

t is little more than a year since terms like L'browser', 'network com-puter', 'World Wide Web' and 'intranet' emerged to describe entirely new concepts of computing. And yet, many companies are already planning to exploit the potential of electronic com-merce and adapting conventional computer systems to take advantage of technology derived from the Inter-

The basic Internet infrastructure has, of course, been around for many years. What suddenly made it so attractive was the innovative software that has emerged from companies such as Netscape and Sun Microsystems. The new breed of so-called 'browser software typified by Netscape's Navigator that sits on top of the World Wide Web (the Web) extension to the internet opened up the power of computing to a wider audience. It made it easier to access complex data from a simple deaktop

The next stage - now beginning - is to extend this concept of easy access from simple information retrieval to conventional business data processing systems. But this demands significant enhancements to the basic Internet 'model' of computing. Security mechanisms, data protection recovery programs and reliable financial transaction systems are all needed on top of the besic Internet technology to make it viable to carry out business. Manufacturers and software suppliers are rush-

ing to fill the gaps. "The Internet took off because of the accessibility of Web browser software. It is an easy way to access data, independent of the computer being used. But we see it going far beyond this and becoming an extension of conventional networking," says Mr Eugene Forrester, Intranet/Internet market

development manager at software company Novell. "Companies can use their

ture and install the browser programs to get the same easy access to their corpo-rate knowledge-base," says Mr Forrester.

existing network infrastruc-

Novell's move into Internet systems - and the internal corporate intranet equiv-- is a natural software developer. Mr For

the Internet.

extension to its well-estab-lished role as a networking upgrade desktop computers

working perspective, other suppliers are coming to the Internet with a different systems. Mr Bruce points view. Database management software company Oracle sees the Web and the Internet model as a natural extension to data management and client/server computing. This applies especially when used to build an intranet - an internal corporate version of

"The intranet presents a more compelling cost-benefit argument than client/server computing was able to deliver. Client/server is a more complicated method of distributing computer power and there are overheads that don't happen with the Inter-



Shanker Trivedi, merketing director at Sun Microsystems which has just launched the JavaStation: 'The shift to network computing

rester says that Novell's recently-launched IntraNetware software fulfils many of the criteria needed to turn the Internet into a viable platform for business com-

"We have concentrated our efforts on disguising the complexity of the network and building a set of services to make secure business computing possible. With our GroupWise workflow product, for example, we can offer guaranteed message delivery. We are incorporating C2 level security and working with partners to fill other gaps."

While Novell takes a net-

software to build an Intranet," explains, Mr Rob Bruce, marketing manager at Oracle UK.

The intranet offers a similar cost model to the old mainframe systems, he says. "This model has never been beaten. The problem is that mainframes are too complex and cannot cope with the demand for new services such as multimedia. But Web technology lets you span business processes in a way that you could not do

Predictably, Oracle is concentrating its efforts on

improve the data-handling features of Internet/intranet out that the basic software used to build information pages for the Web can only cope with static data.

Updating a price list or a product catalogue is labourintensive - "we can use the power of the database to deliver information dynamically. This makes it much easier to keep Web pages up to date"

Mr David Bridger, Internet erver product manager at Microsoft UK, echoes Mr Bruce's comment about the static nature of standard Web pages: "You need to be able to get information from different sources and pull it because it is an expensive business having it in a static

But he also says Microsoft sees potential in other areas of commercial computing with the Internet as the base technology "collaborative working, workflow and automating business processes are all helped by Internet technology. You can build electronic communities and enhance the relationship between supplier and cus-

He goes on to describe several areas of Internet 'enhancement' on which Microsoft is working: "There is an awful lot going on. We have a number of projects under way which aim to plug the gaps in the Internet to make it suitable for electronic commerce. In addition to support for security and encryption standards, we are building a component-based transaction monitor called Viper and a message queueing system called Falcon.

"The key is to be able to integrate these components because there are so many processes you need to bring together to do financial transactions over the Internet.'

It is of course still early days - both for Microsoft and its rival software suppliers. The real proof of the viability of the Internet as a mechanism for electronic commerce has yet to emerge. seems now, however, that it is a matter of when expanding conventional rather than if or how - this database technology to help will happen.

A flexible route to network 'plumbing'

Building an effective Intranct will sometimes mean adding routers. bridges and hubs which handle the network "plumbing".

A key trend is in stackable hubs - these hubs connect and act as the connection between local area networks (Lans). Hubs used to be complicated pieces of equipment requiring a reasonable amount of expertise to set up and

manage. But this is

changing as companies

bring out stackable hubs

that can be as simple to

use as plugging in wires

and running installation software. Stackable bubs are a cross between the more complex and larger chassis-based bubs and simpler standalone hubs. with some of the best fentures of both.

Stackable hubs are now

available for all types of networks such as Ethernet or Token Ring. And they bave a small 'footprint' which makes them useful for smaller offices.

Futhermore, stackable hubs can be combined to grow with a company and allow users to expand their

- Tom Foremski

Market swiftly brings products

E. Groupware . By George Black

into line Lotus, the groupware market leader, has been the fastest to respond to the spread of corporate intranets

L culty that even the most dynamic software developers have in keeping up with the pace of techno-

Microsoft planned its Exchange Server to topple Lotus Notes from its perch as the top product in this deld. But while it was developing the software, it failed to anticipate the rise of the internet and the spread of corporate intranets modelled on the internet.

publicly converted to supporting the internet, but its late to enable it to shape Exchange Server to overhaul Notes.

Lotus Development was quicker than Microsoft to on the Internet is often unre respond to the shift in the direction of the industry. It was able to call on IBM. which took it over last year, to help fund the development of new software to meet the requirements of the Internet and intranets. So Lotus, which has dominated the market for the past six years, looks likely to be able to continue to do so for another few years.

Virtually all groupware suppliers are bringing their products in line with Internet standards. Lotus has managed to do this by introducing a program called Domino which allows users to convert Notes into an

The groupware market intranet. Earlier this year illustrates the diffithat Notes' position was threatened by intranets. All the elements of groupware appeared to be available on the Internet either as freeware or at very low cost.

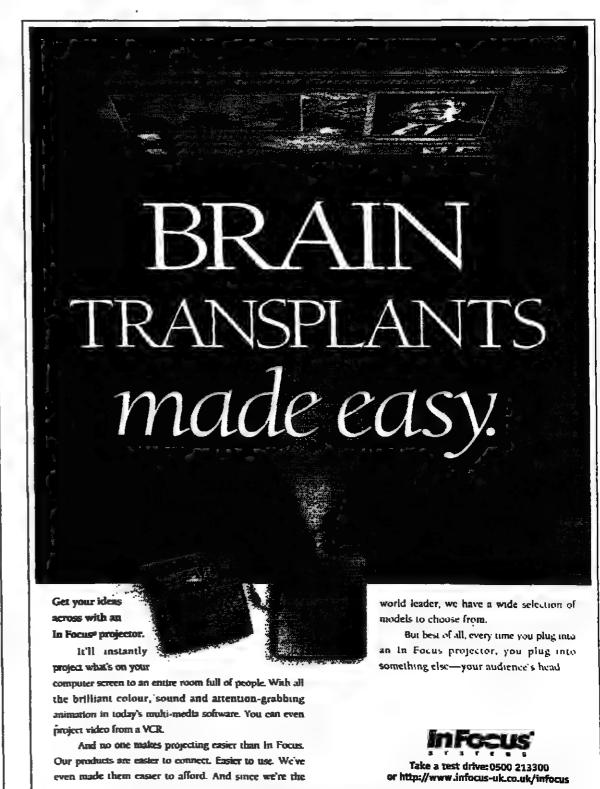
However, after further comparisons of the costs of the alternative systems and the launch of Domino, the prospects for Notes have been revised in its favour.

"The intranet is excellent for publishing, but groupware beats it for collabora This year Microsoft was tive working," says Mr sublicly converted to sup- Roger Whitehead, director of the consultancy Office change of policy came too Futures and author of a report on the subject pub-lished last year by Cambridge Market Intelligence.

The groupware available liable and getting the tools to work together to produce business applications is not easy." he says. A Xephon survey this summer showed that use of the Internet is more likely to complement Notes than replace it. "The Web absolutely does not make Notes obsolete," it

summed up.
Lotus's Notes marketing manager Mr Jim Moffat regards the intranet as the "only real competition" for Notes, but believes that Domino has secured it against that threat,

He expects the majority of



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THE INTERNET, INTRANETS AND THE WORLD WIDE WES

Many organisations are now deploying private webs or

and management systems of the future.

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ntroducing an intranet will allow organisations to extend, cost-effectively, the reach of their main packaged business applications to a whole range of new users.

Existing power users of accounting, manufacturing, distribution, sales and marketing, and human resources systems will continue to use the full desktop software, called a "fat client", supplied with their client/server systems. However, browser access to packaged business systems can be given to a wide range of casual users within and outside the organisation.

The intranet expands the scope of the enterprise application because anybody on the network can access it," says Jim Johnson, lead architect for web services at business application vendor Dun and Bradstreet Softmun (http://www.dbsoftware.com). Somebody in the human

resources department would continue to use their full client, but other employees would use our Java applet (see buzzword definitions. page one) to update their

Continued from page 11

structing an intranet.

consultancy.

Notes users to adopt Domino

as part of their plan for con-

Lotus's strategy seems to

have won the approval of

experts. "I think they have

got it right in integrating Notes with the Internet,"

says Mr James Eibisch,

senior analyst with the Input

Although it is not impos-

sible for an existing supplier

(Microsoft, Novell or Oracle)

or a new competitor to over-

take Lotus, the probability is

that Notes will retain the

leadership in groupware.

with a gradually reducing

share of a growing market,

for a considerable time

Meanwhile, Microsoft needs either a radical

E Groupware market

Ease-of-use is a key factor

Intranets allow a whole range of new users access to business applications. But there are still technical problems, particularly with transactions outside the organisation

accessing SAP's R/3 finan- order entry, inventory and functionality. It is also plancials through its intranet. It has 1,400 users of its worldwide financial system, but has written an application using its own intranet tools which has allowed a further 12,000 employees to raise requisitions and get them approved before automatically entering them into R/3. However, vendors themselves will soon be providing these tools.

Oracle (http://www.oracle.com), the database and application vendor, has recently announced a series of Web extensions to its packaged applications. Web Employees offloads administrative intensive work from support staff to the employees themselves, such as job application processing, rais-ing purchase requisitions and expense reporting.

Oracle will also extend use to customers and suppliers. through secure access to Microsoft (http://www.mi-parts of the intranet. Web crosoft.com) is already Customers provides sales

upgrade or a replacement of

Exchange Server, says

Offices Putures' Mr White-

head. Notes gained its lead

by coming into the market

first, offering a wider range of features than any other

sales through the indirect

port from large organisa-

tions and other developers

who adopted it as a platform

for their own applications.

CMI's report on the subject

found that it had drawbacks:

"It is a devourer of

resources, both human and

technical - and needs atten-

tive supervision if response

times are not to tall away."

But it concluded that "Lotus

Notes is the groupware prod-

Lotus now claims 6.3m

It quickly won a lot of sup-

ndor and succe

accounts receivable, allowing a customer to check product availability, place an order, drill down to the carrier to track its progress and monitor its account to check invoicing, credits and payments. Web Suppliers allows supply companies to access

> The system is intuitive, so reducing the need for costly training

purchase orders, check inventory levels, payments, manufacturing schedules and view their supplier performance statistics.

These are the first tranche of 50 applications from Oracle, while SAP (http:// www.sap-ag.de), the leading integrated application vendor, is developing similar

its user base in the past

year, achieved by a big price

cut which IBM's chairman

The company's target is

Mr Gerstner is said to

regard Notes as fundamental

to IBM's future and he has

therefore given Lotus plenty

of scope to develop the prod-uct as it likes, while impos-

ing a stricter business cul-

ture on the new subsidiary.

to Notes which has been

much discussed this year

Another potential threat

Mr Lou Gerstner authorised

30m users by the end of 1998,

spanning not only personal computers but also IBM RS/

to increase market share.

6000 and AS/400 servers.

Viewpoint

ning employment opportunities, electronic correspondence, bank data transfer, inst-in-time stock levels. plant maintenance information, product quality certificates, help calls, project progress, employee directory, ad hoc financial reports, overhead allocation activity levels and simple workflow tasks.

These extensions have a number of benefits. They reduce costs by allowing direct input of data, rather than tying up customer service and data input staff. Oracle has already reduced the internal cost of processing a purchase order from

"We can control who is buying what and get better deals from suppliers," says Greg Harmon, Microsoft's SAP project manager. With intranet access. information is available to

partners at any time, not

just during working hours.

Notes licences, a trebling of browser vendor, Netscape. It integration of its products

has been building groupware

features into its Navigator

browser software since its

acquisition of Collabra Soft-

Collabra, founded by an

ex-manager of Lotus's E-mail

team, launched its Share

groupware system in 1994.

The next version of Naviga-

tor (code-named "Galileo"),

due for release by the end of

Analysts have doubted

whether Netscape has suffi-

cient resources to devote to

groupware at the same time

as battling with Microsoft

for control of the browser

market. But Mr Serge Bern-

ard. Netscape's director of

the year, is expected to include all the functions of

to a traditional graphical user interface is important as it is costly to train employees and suppliers. and customers cannot be trained. Oracle refers to this situation as "switch on and use". In 1995, Silicon Graphics, the visual computing company, developed its own Pole Vault (http: // lurch.corp.sgi.com) technology to allow enquiries to a range of legacy business applications across its intra-

"No training was required because of the intuitive Netscape interface," says Bob Zalusky, information technologist. "People are already familiar with the browser and only have to learn the business process. When we replaced our legacy systems with Oracle applications, the interface didn't change, no further user training was required and productivity

Plenty of scope for development

with Collabra's will enable it He believes there are many companies in which Notes is used only on a limited scale and for complex applications.

These companies will also be looking for cheaper and simpler groupware and more of their staff, he says, and will therefore be keen to run Netscape programs alongside Notes

There is certainly still plenty of scope for growth in the groupware market, if computer users can be convinced of the benefits of the software. Xephon's survey found that only 32 per cent of sites used groupware and European intranet market 44 per cent had no plans to comes from the Internet development, says that the do so.

transactions on the Web," says Ashim Pal, senior consultant with analysts Ovum (http://www.ovum.com). Web technology cannot recover from an interrupted transaction, so until Web servers can handle transac-

It is important to draw

distinction between Lan-

based intranet access and

wider Web-based access to

business packages. A World

Wide Web connection is not

continuous because the con-

nection ceases when a page

and is only re-established

when the user clicks on a

link to another page. It is

also subject to interruption.

go in technology develop-

ment before we have serious

We have quite a way to

has been sent to the browse

tions properly, this is beyond Microsoft is working to improve transaction integrity. Early in 1997 it will launch its "Viper" transac-tion co-ordinator to ensure that any transaction is fully posted to all application modules. Also, using its two main object technologies, the Distributed Component Object Model architecture embedded in Windows NT

can be made without using existing protocols. The dream of using a network computer for all software interactions is still a long way off. "The power of impossible to deliver in a browser." warns Bobby Cameron, director of packaged application strategies at ana-

lysis Forrester Research

Server 4.0, its server operat-

ing system, and ActiveX, managed Web connections

(http://house.forrester.com). The power user benefits from Windows integration for query, decision support, st and OLE automation. The heavy duty Windows client will remain until the browser can duplicate it, which will take years. The 'thin client' doesn't exist in this context." A thin client is a

Continued on facing page

E Case study . By Rod Newing

A quick fix

An intranet at Dixons, the consumer electronics retailer, has improved customer service and reduced costs

The rapid installation of an intranet was a priority for Mr Keith Martin-Smith, Dixon's newly-appointed PC ervice director for its Mastercare enstomer-support s peolestico

"I wanted to improve service levels quickly and ensily," he says. "The company aiready had a Wide Area Network to link our point-of-sale terminals, which was running the TCP/ IP internet networking protocol, so it was easy to connect our PCs.

Dixons is a leader in its field, with 800 outlets. including its PC World superstores. It took only two 'man weeks' to install browsers, to enable the file erver with Windows NT and Microsoft Internet Information Server, and to build a two-page Web site, using Microsoft's Front Page authoring tool. The site has links to each hardware and software vendor's own external Web site.

Knowledge-base

"Overnight, I gave 200 the optside world and we had everybody 'intranet capable' in four weeks,' says Mr Martin-Smith.

"It didn't take massive resources and the cost was almost sero. We knowledge-base and the speed of our problem-solving, because we could get information and software fixes or upgrades direct from the vendor's Web sites.

Dixons Mastercare have added to the site polutions for predicted problems for new products, and the service arrange for each vendor. Any technician can post solutions to a "problem" section where it become immediately available. Managers draw up staffing rous using

spreadsheet so that they can be converted to HTML, the Web format, and posted on the site. The engineers use a digital camera to record physical changes to products they support and will add video and animation of common upgrades later.

All the PC World stores are being added to the intrariet. The first application will book an engineer's visit the following day. "It takes away the pain at busy peak times, such as lunchtime queues in stores," says Mr Martin-Smith.

"We are still amazing ourselves with what we can do with Front Page when designing Web pages," enthuses Mr Martin-Smith, but we have outsourced the design of more graphical pages which will make better use of Microsoft's ActiveX technology when customers are given access

less provide

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developing a pilot site using a beta of Merchant Server. Microsoft's electronic commerce following

Dixon's experience is that the intranet requires very little support. "We had to develop skills quickly but our networking staff easily made the transition," says Mr Martin-Smith.

"The ease of use and integration of Microsoft products makes the cost of developing an intranet very low, because we can set it up in man weeks, not man months," be explains. "It isn't rocket science - and with good planning there is no risk to the company or

"By using the intranet we have improved customer service and reduced costs simultaneously, something which is rarely achieved in any other medium. The opportunity to use the intranet is endless and we have yet to discover its full potential."

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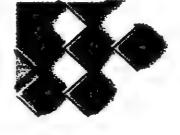
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10,000 reasons why the world's largest company chose TeamWARE

At NTI's Shinjuku Headquarters in Tokyo, 2000 TeamWARE Office users are communicating with each other, sending and receiving over 10,000 e-mail messages every day.

When choosing an IT solution for their e-mail, resource scheduling and information publishing needs, NTT had a number of requirements. Firstly they needed a solution flexible enough to support an initial 2000 users expanding later to a potential 4000 users. Secondly they needed a solution that could support a mixed community of PCs and Macs, and thirdly, they didn't want to spend large amounts of time or money training their staff to use the new system.

The solution that met the requirements was TeamWARE. The TeamWARE Office suite of groupware tools is; scalable, supporting users numbered from tens to tens of thousands, platform independent, supporting all major operating systems and so easy to use that NIT needed to train only 3% of their staff, who were then able to train their

TeamWARE helps staff at NIT communicate and improve productivity. To find out more about how TeamWARE's intranet solutions can give your business the edge, visit our web site http://www.teamw.com, send an E-mail ccenquiry@teamw.com or contact us on the numbers below.

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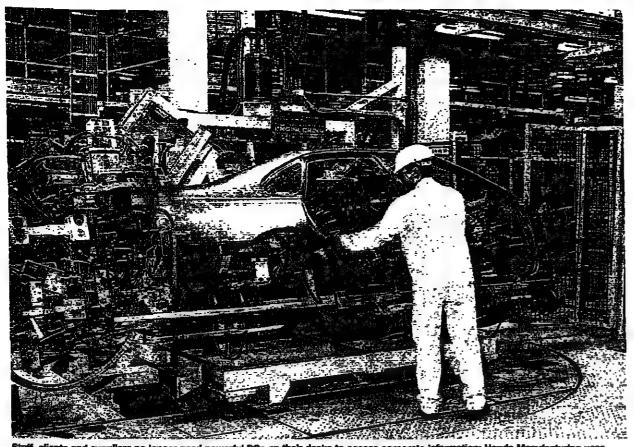


the intranet, researchers can

access articles, news and external Web sites, or debate

topics in "discussion areas".

New directions: intranets



ents' Amazon to create an intranet to link its factories with its norte suppliers

■ Database applications • By Geoffrey Naim

Less problems for IT staff

Software houses are rushing to meet the demands of customers moving their databases on to intranets

he ease of use and low cost of web technology are powerful arguments in favour of moving database applications from existing networks to an intranet. But transforming corporate data into web pages is not straightforward and the software industry is racing to develop tools to

ease the task. Many of today's business applications, such as accounting or retail point-ofsale systems, depend on data stored in corporate databases running on mainframes or client-server systems. By building an intranet and moving these applications on to a web server, complexity and costs

can be cut a stroke. Users no longer need powerful PCs and applications programs, whose installation and support cause IT departbig headaches. Instead, they access webbased applications and corporate databases via cheap, simple-to-use browsers that run on any computer - Netscape's Navigator works on 16 different platforms, for

example. Oracle, the leader in client-server database software, takes the cost cutting further and proposes companies equip their users with \$500 network computers. These

Continued from page 12

stripped-down PC (a low-cost

NC) designed to work across

However, occasional users

may find that the thin client

puts on weight rapidly. "In

order to have value, the

browser has to get bigger to

support groupware." argues

Mr Pal. "This means it gets

larger and more like an

existing client. People will

find out in two years that

they have the same level of complexity as a fat client."

۲,

designed solely for browsing and thus lack the local storage and complicated features of today's PCs, so reducing their price tag and support costs. "With an intranet, the database delivery mecha-nism has changed. Users do not need a local 'mainframe' on their desktop or software that resides locally," says Mr Andy Bailey, Oracle market-

Silicon Graphics built an intranet to give its sales staff cheap and easy access to corporate data. "We are able to leverage our data warehouse investment and extend the reach of this information worldwide, without making a huge networking investment," says Mr Mike Graves, chief information officer for Silicon Graphics.

ing manager.

The US workstation company is using a new webenabled version of the BusinessObjects decision support software, from French company Business Objects, to allow several hundred intranet users to access sales and marketing information in its data ware-

Many software no rushing to adapt their database software or tools to work over intranets. Oracle. for example, hopes to increase its dominance of the high-end Unix database market with software to allow companies to move existing client-server applications to the web or build new applications for their intranets. The company has developed its own web server technology, included free in the next release of its Oracle database. This allows

Good news for business consultants

solution to these problems is

IBM's San Francisco Project

(http://www.softmall.com/sf).

IBM has teamed up with

more than 50 software devel-

opers, including Computer Associates, Dun and Brad-

street, JBA, Lawson, IBS and

Marcam, to produce high level application frameworks

using Java, Sun's new Inter-

net programming language.

These basic frameworks will

be adapted by each vendor

for its own market and con-

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figured across the network reducing costs.

tions on a corporate database directly from their web browser, and while the primary market is Oracle users. the company this year unveiled new "cartridge" technology to allow Oracle

non-Oracle database Oracle and other leading database vendors, such as Sybase and Informix, see intranets as a natural extension for their Unix relational database technology. But they are losing ground in

Web Server to integrate with

By building an intranet and moving applications on to a web server, costs can be cut

their traditional client-server market to Microsoft. Whose Windows NT operating system and SQL Server database provide a cheaper solu-

This trend is even stronger in intranets and a growing number of web servers use Windows NT instead of Unix. The Unix database vendors have responded with cheaper databases and intranet access products for Windows NT, but they face strong competition. Microsoft, for example, is trying to establish its BackOffice technology as a platform for corporate intranets. It has developed FrontPage to

gineering projects. They will

client's business processes

again to make use of this

new functionality! Neverthe-

less, the intranet does offer

the opportunity to use exist-

ing applications to increase

customer service while

soon be able to change their

nies to build web applications that more closely match their business needs. In the UK, Honda Manufacturing is using Amazon to create an intranet to link its An interesting long-term between the client and factories to its parts suppli-The intranet looks like ers. "Electronic data interbeing good news for consulchange (EDI) has not taken tants, who can now start off really well and the web planning to revisit all their potentially can replace it," says Mr Tony Goschalk, past business process re-en-

either its SQL Server or

Other companies have

developed similar products

and many interface the data-

base to a web server using a

standard called Open Data-

Base Connectivity (ODBC).

This is easier and quicker

than developing a custom

application, though critics

claim the extra layer of

interfacing software slows

"There is a slight time

penalty, but it all depends on

the database you are are using," says Mr Randy

Anderson, marketing vice

president at Stormcloud

WebDBC product is an example of an ODBC-based

web application development

Bechtel uses WebDBC to

allow regional managers to

get the latest financial infor-

mation from an Oracle data-

base simply by chaking the appropriate region of a map

on their browser. Telecoms

company US West used WebDBC to write a web-

based help desk application

The UK company Intelli-

gent Environments spurns

the ODBG approach to accessing databases, which

it claims can reduce perfor-

mance and security. Its

Amazon tool, which runs on

Windows NT or OS/2 Warp,

can directly access a wide

range of corporate legacy

databases and transaction

processing systems. It stands

intelligence to implement

business rules and proce-

dures, so allowing compa-

Support Staff.

engineering firm

whose

down the applications.

Development,

rivals such as Oracle.

marketing director at Intelligent Environments. The tools to move data between databases and web pages are immature, analysts warn, and require much manual fine-tuning to work effectively. The main problem is that the two worlds are essentially incompatible. The intranet is designed to handle unstructured content - text, sound and images - accessed randomly from web pages; a relational database, by con-

accessed by rows and columns. Object technology may provide a better bridge between the two worlds. The object-oriented language Java already allows browserbased mini-applications called applets to extract their data directly from a corporate database via the

trast, contains highly struc-

tured data organised and

intranet (see cover story). Object Design, a leading supplier of object database software, claims relational databases are simply unsuited to building intranet applications. It maintains object technology is better at handling the complex relationships between multiple data types, such as text, audio, video and image. Web sites on the internet increasingly use a variety of types of data to present information in different ways and Object Design argues corporate intranets will soon fol-

European pacesetters . By Geoffrey Naim

Corporate intranets have caught the European imagination

urope has tradition-ally lagged behind the US in its adoption of the latest information technologies. But with corporate intranets the gap is closing rapidly as European companies warm to the benefits the technology promises over their existing networks.

European companies are very interested in what intranets can offer and the gap in deployment between the US and Europe is fairly limited." says Mr Ashim Pal. senior consultant at Ovum, the UK-based IT consultancy firm, which plans to publish an intranet report in Decem-

This strong interest in intranets contrasts sharply with the lukewarm attitude of many European busisses to the public Internet. According to a survey commissioned by Digital Equipment, interest varies by country with most enthusiasm coming from UK and Scandinavian companies. Almost half the German and French companies polled believe the Internet is overhyped, while in the UK, the sceptics are outnumbered two to one.

"Information on the Internet is mostly in English and this will always be an impediment to the Internet's growth. Intranets do not have this problem as companies can create them in their own language," says Mr Paul Evans, marketing director with Digital Equipment

As well as the language barrier, European Net surfers are handicapped by sometimes creaky infrastructure and the afternoon slowdown when North American Internet users wakes up. According to the Digital survey, 24 per cent of European businesses believe their Internet infrastructure will be used primarily to access

predict their browsers will be pointed internally, running powerful applications and accessing corporate data on private intranets.

The figures for US businesses are 38 per cent and tust 16 per cent, suggesting intranets could develop more rapidly in Europe than the

"Europe has realised there is a competitive advantage in using intranets and does not want to be slow off the ground," says Mr Evans. By 2000, intranets will take 80 per cent of the European market for Internet software, he predicts.

As in the US, Europeans are taking their first intranet steps with simple applications, such as information publishing and document

nologies are relatively stable

and the risk of failure lim-

ited. "If the intranet does not

work with these applications then the business will still

survive," says Mr Pal. The Dutch subsidiary of

Cap Gemini, Europe's largest

computer services group,

used an intranet to eliminate

the mountains of unread

memos and other paper on

desks. Documents are now

stored on a web server and

can be accessed by any

employee using a standard

browser. Staff working away

from their office - at home

or on a customer's premises

larger intranet, called Knowledge Galaxy, that links 17,000 Cap Gemini staff and runs on 40 servers distributed throughout the group. Staff can quickly find and retrieve case studies, design documents and reports

located, they can run a simultaneous search across all 40 servers," says Mr Keith Turner, technical director at Cap Gemini's UK subsidiary. Knowledge Galaxy uses the Fulcrum document management system, which allows documents to be accessed in their original form - as a Microsoft Word file, for example. An alterna-

software, but then the infor

mation must be converted

into web pages. "A lot of things, such as presenta-

tions, lose their value when

says Mr Turner. Many IT vendors are build-

ing intranets to improve

information flows and show-

case technologies they can

offer to customers. Digital

Equipment, for example, has

an intranet linking 1500 serv-

ers worldwide. One of the

first applications to be put

on it, 18 months ago, was the

internal telephone directory.

built an intranet to connect

Italian firm Olivetti has

converted to web pages,

sharing experiences and project results with colregardless of location. Previously, there was no "If they have no idea where the information is mation, so researchers

tive is to use a web-based search engine, such as Digital Equipment's AltaVista

central repository of inforwasted time looking for information perhaps available in-house. The intranet management by giving project leaders instant access to administrative data, such as man hours spent and procurement requests. "Project leaders can focus more on technical problems than on administrative issues," Says Mr Claudio Adriani, Olivetti's director of technology strategies, who claims pro-

ductivity has also increased. Interest in intranets is growing beyond the IT

Kvaerner, the Norwegian conglomerate, is construct-ing an intranet to help integrate its growing business empire. Last April, Kvaerner acquired the UK company Trafalgar House and the first stage of its intranet will link its Oslo headquarters to the new London offices.

Additional servers will later be installed in Houston, Singapore and Sydney to act as communication hubs for a giobal intranet linking 40,000 employees in 400 offices. "Our main goal is to achieve effective information flow throughout our operations. says Jorgen Piene. Kvaerner's technology director. The intranet servers, supplied by Digital Equipment, will run Microsoft Windows

Other intranet pioneers can be found in Europe's pharmaceutical industry. where a wave of mergers has caused companies such as the UK's Glaxo Welcome to look at using the intranet to improve information distribution and collaboration between their many European sites.

Elsewhere, the clothing firm Levi Strauss has a project to link 60 per cent of its European staff using an



- are not left out and can its research labs in Italy and abroad. It uses Netscape access the same documents on the company's intranet Communications Server softusing a PC and modem. The ware running on an Olivetti the public Internet in 2000. Dutch project is part of a SNX server system and TODAY'S DESKTOP.



deep, it already exceeds the internal capacity of many builder computers. Better soil, it has been built with fast-changing chip technology in mind. It accepts all intel's Pentium ® Pro processors and will handle tomorrow's even faster and hotter CPUs. Upgrading has never been easier - with simple two-screw access and a standard-size motherboard, the Bonex PC-6200H/I has been designed to let you take maximum advantage of new develop-

ments, as they happen. And while you're waiting for technology to catch up, you'll have some impressive features as standard and a flexible range of configurations to choose from. All in an alegant designor, THE ELONEY PC-6200H/I read of the passes

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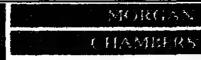
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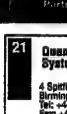
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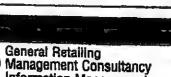
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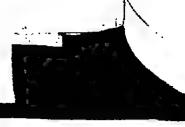


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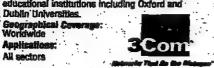
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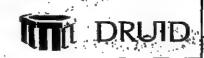
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In sales, it's grow or die

Integrated sales and marketing systems are still not being used by many businesses - and even those that do use these software packages are not receiving the full benefits

benefits of information technology for their sales and marketing. The latest Softworld survey for sales and marketing systems (http://www.softinfo.com) shows that 81 per cent of respondents, down from an astonishing 95 per cent a vear earlier, perceive a gan between what is possible and what is being achieved. However, only 31 per cent

of them are using an integrated sales and marketing system and the majority (51 per cent) are still using con-



Sales and marketing systems

tact management software. integration with existing systems is considered the biggest barrier to implemen-

"Organisations tend to expect an all-embracing sys-tem to be delivered on day one," says Wendy Hewson, a principal in Hewson Consulting Group, (http://www.hewson.co.uk), a specialist sales and marketing IT research group. "Political and technical factors in some compa-

rganisations are still nies are leading to an indefi-not realising the nite postponement of implementation with consequent loss of benefits."

The benefits are in making sales and marketing more efficient and effective, as well as in making better use of the different resources available at appropriate points in the sales process.
"These systems are very

easy to use," says Clive Burrows, co-author of Ovum Evaluates Sales Force Automation, (http: www.ovum.com), "so the salesperson only needs to know how to connect the cable in a hotel room. Once they see the benefit, they will use the system more and more. This will give the marketing department better information, so the production department will start to get better forecasts. They will get more faith in the figures because they can see more information. "At that point, everybody

wins, especially the salesman, who will have to complete fewer reports." Nevertheless, the function-

ality of the packages available is holding back more widespread adoption of sales and marketing software. "Activities such as contact management, sales activity reporting, direct mail and telemarketing are simple mechanistic tasks which are well-supported by systems," explains Mrs Hewson. "Systems for these have

been available for some time and users requirements are well-known and catered for. However, co-ordinating an organisation's contact strategy with a customer or prospect across the most cost-effective marketing channels, typically involving direct mail, telesales, different teams of field sales representatives or distributors, is very difficult to do well. Systems have made little

Wordprocessing package eadsheet package Mobile phones 1 1 to 1 to 1 to 1 to 1 itation software Portable PCs/laptops/palmtops internal E-mail system The internet/world wide web S. 4. 12 . W Contact menagement software Marketing database sol Lead Inscino software A STATE OF THE STA Mobile Cale communications THE TANKS OF STREET Postcoding (PAF) software matical analysis/EIS acit Salah Salah Washington

"The US is more advanced than the rest of the world," reports Mr Burrows. "In Europe the only major players are Point from Germany (http://www.pointinfo.com), which is strong on call centres, and Oxygen (tel: 44 (0)181 740 7440) from the UK, which has a kit of parts to

Most organisations are not migrating to more modern packages, but replacing in-house systems. This suggests that the market for packaged software is relatively immature.

build the system you want."

"Slebel (http://www.siebelcom) will be the market leader," predicts Burrows coauthor, Beth Barling-Twigg, "although they are still new and don't yet have a full

they are winning the big orders to the extent that their main competitor is in-house development."

Mrs Hewson is forecasting substantial growth in 1998. She reports that there has been little growth from 1994 to 1996, with fewer but more sophisticated systems being sold. In 1998 and 1999 she predicts rapid growth as a result of product strength and increased competitiveness between users.

"A trend will emerge of switching from outsourced operations, such as telemar-keting and direct mail, to internal systems in order to get ownership of data and a single customer view across multiple communications channels," she predicts.

However, a sophisticated sales and marketing package is not easy to implement, because of the range of tech-nologies involved. "We are advising organisations very strongly not to implement systems themselves," warns Mr Burrows.

logies in use now and the coming year

With client/server, a data-

computer telephony integration and networking, very few in-house IT organisations have the range of skills. If you need a new system, you need it quickly and in-house staff will take 18 months to get it wrong. Using the vendor will be fas-

■ Support for the sales force

No simple solutions

Trouble-shooting for a remote sales team is far from easy, reports Tom Foremski

upporting a remote sales force with adequate computing ser-There are significant issues of how to support staff who may be rarely in the office - with software upgrades, training, and creating the right comput-

ing infrastructure. There are also issues of security, since providing outside links into the central office brings the potential for unauthorised users finding their way to sensitive company data. And while there are many solutions available for remote access, the number of options, configurations and parameters can be overwhelming to an organisation's already overworked

Supporting a remote sales force means more than just allowing staff to run spreadsheets or word processors on portable computers, with occasional links into the office. A mobile sales force needs access to the latest inventory data, delivery schedules and prices; it also needs to be able to file sales orders and track their status. This means access to

the company's database and, traditionally, this has always been a difficult task. When problems arise, troubleshooting is difficult because the salesperson and their computer may be hundreds of miles away. A general rule of thumb is that supporting a remote worker is about a third more expensive than supporting a local

Apart from solving the technical problems, the other half of the coin is deciding how to manage a remote sales force. Experts say that guidelines must be established that place an emphasis on training staff to enable them solve some basic computing problems

It also means setting up a schedule to update the applications on portable computers when the salesperson visits the home office - and making sure that staff are using the right versions of

software and using only the software programs that they need to carry out their

Connecting with the main office is achieved in several ways. Some companies opt to use a groupware package such as Lotus Develop ment's Notes software. This helps distribute marketing information, collect sales orders and access data about customer purchasing. Notes can be used to prepare pre-sentations, with several users participating in the process through modem connections. Notes also provides security to prevent outsiders from tapping into the network.

Other solutions providing remote access to the central office local area network (Lan) include Novell's Netware Connect and Microsoft Windows NT Server Remote

hese two applications allow a sales staff member in a remote location to dial-in to the main office and make it seem as if they are just another local node on the network. Data transmission is slower because of modem connections, but there is a lot of value in having full access to all files and application

Similar remote access applications include Simware's A2B, Attachmate's Remote LAN Node, and Funk Software's Wanderlink. In addition, there are remote control programs such as Symantec's pcAnywhere and Traveling Software's LapLink which allow a remote user to take control of a PC from a remote

The future for connecting a remote sales force, however, lies with Internet technologies and Internet enabled database systems that can generate web pages on-the-fly. Using a web browser as a universal user interface, companies can set up special web sites to support their sales force.

The web site can include electronic forms to accept sales orders and handle data queries, cutting down on paperwork. A company's web site connected to its database, can provide realtime data on inventories. billing and delivery sched-

Continued on facing page



US companies are generally more advanced than those in Europe in applying sales and marketing systems. Above: the service centre of US West, the telecommunic company, in Phoenix, Arizona. US West has partnerships in the Europe, including Telewest, the cable company, and One 2 One, the

ter, cheaper and more affec-

The increasing use of implementation assistance is supported by research car-ried out by Hewson Consulting Group on behalf of Mercatus, an association for the profitable use and develop-ment of IT in sales and marketing. This predicts a ratio of licence to services revenue of 40:60 in 1998 and 30:70

Strategic marketing, planning and campaign manage-ment are vital areas which are not yet fully supported by available systems. Existing software is largely single user, aimed at helping teams of cross functional managers to draw up plans.

"It acts as a facilitator, records the views and assumptions they make and plays back the results of their assumptions," says Mrs Hewson. "It is only adequately supported by 10 per cent of systems.

"It is exceptionally difficult to do as you can't. unbundle the software from the marketing techniques involved. Planning requires

integrating hard data from marketing systems with 'softer' data, such as customer needs, competitive positioning and attractive-

The sales and marketing software already incorporates in its logic a complete model of the organisation's products, markets, channels and customers, so it would be natural to incorporate a planning and modelling facility which could accept and record the soft data, while providing manages with the hard data they need.

Meanwhile, Ovum is enthusiastic about the benefits offered by an integrated sales and marketing system. "Can a business afford to wait?" asks Burrows. "In this competitive age. it's a

Membership of Mercatus is open to vendors and end-us-ers interested in the profitable use and development of IT in sales and marketing for an annual subscription of £295. Contact tel: 44 (0)1908 677340,

question of grow or die."



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Summing, or what

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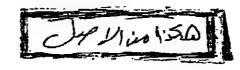
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TOM

for busines

Helationship management systems . By Rod Newing

New ways to plan a global business

Managing complex relationships between global organisations presents a substantial challenge to sales and marketing systems

L isations having to repond to increasing globalisation. Their customers need the banks to have a good understanding of their overall needs and investment strategies; banks must offer consistent advice across a range of markets, products and regions and design solutions which will add value to their customers' businesses.

"We have a huge global customer base, so we are constantly trying to improve and stay ahead of the competition," says John Weguelin. senior vice president of Global Capital Market System at Bank of America, the US bank with offices in 38 countries around the world.

"We need systems to help us to identify and leverage giobal investment opportunities, integrate and distribute economic research and manket data and share comprehensive customer informa-

However, traditional organisational structures, based on product groups and geographical locations, are

nvestment banks are one uniform product range and of a wide range of organ- services in each market in each financial centre. Groupware products, such as Lotus Notes and Microsoft Exchange, are ideal for building relationship management systems.

A relationship manage-

ment system allows geographically separated executives with different market skills to share information about each main client and so work together to develop joint client marketing strategies and pitches. As well as providing complete details of all enterprise-wide relation-ships, contacts and meetings, a relationship management system can provide prospect status, potential investment needs, responsibility and date and nature of

gated actions. "We service our customer in 10 different countries and they expect us to be one organisation," says John Odmann, project manager at Svenska Handelsbanken, the leading Nordic bank with 500

next action, including dele-

"Lotus Notes is an excelpoorly equipped to provide a lent tool which will allow

staff regardless of location to supports customer informabuild up a more complete tion, external news, internal picture of the client's news, to do lists and credit requirements and needs."

Such a system enables the preparation and management of individual global client marketing strategies and allows monitoring and maintenance of the deal pipeline, including forecasts.

well-designed system will also provide management information, covering areas such as growth in multi-product clients, monitoring success of cross divisional account teams or reviewing consolidated client profitability.

Anybody in any office can find information on current and potential clients, covering all parts of both organisations throughout the world and in all markets, The systems also allow access to internal alectronic professional information libraries, covering areas such as products and services, financial instruments and market research. Perhaps most importantly, they allow dispersed staff to conduct group discussions and draw up joint client market-

Standard Chartered Bank, which has a network of 600 offices in 40 countries, has used Lotus Notes to develop an integrated system which really been a revelation," says Mr Frazer. "We are instilling a cul-

ture of rigorous account planning and, by using the call reports and deals-inpipeline, making sure that people work as a much more effective team, wherever they are in our worldwide network of offices."

Bank of America has also achieved cultural changes: We have empowerment in terms of the increased knowledge we have placed in people's hands," says Mr Weguelin. "Not just about our business and our customers, but more importantly about our customers businesses and their needs from the bank.
"The introduction of Lotus

Notes has been an enormous motivator in getting people to share information which they would otherwise have remained for themselves. We have seen greater co-operation, teamwork and sharing of information which has certainly resulted in increased cross selling and an ability to close transac-

Although Lotus Notes has established a strong position in relationship marketing systems, Microsoft Access has entered the arena. "We implement Menhir's Rapport (http://www.menhir.com),

which is based on Microsoft's Exchange and Office products," says Paul Foll, director of CMG the Euro-

pean systems integrator. "It was developed for wholesale banking, but would be relevant to any global business-to-business relationship management."

With Rapport, (info@menhir.com) any document created in Microsoft Office is tagged both to the origina-tor's and recipient's positions in their respective organisational hierarchies. Importantly, it has the ability to administer the secu-rity required by "Chinese walls". CMG does not recommend implementing a relationship management system using Intranet technology because it does not yet offer security.

As business becomes increasingly global, the demand for relationship marketing systems is going to grow. Cross-selling opportunities are increased by allowing staff to understand and share client requirements across product groups. This enables them to identify key trading patterns which can provide new opportunities for their cli-

It also increases their perceived professionalism when seeking new business and

Forecast of big rise in sales via the Internet

A new survey reveals that the UK's top companies expect almost one-in-five of their sales to come directly via the internet in five years' time, representing a total of about £170bn, writes Michael Wiltshire.

This estimate - by Harris Research for KPMG Management Consulting* is made despite very low levels of investment in the technology and the fact that more than 80 per cent of the companies questioned cannot currently attribute any

The survey reflects the views of marketing directors of 100 UK companies - each with an annual turnover of more than £200m - concerning their use of electronic commerce, including intranets, smartcards and

sales to the Internet.

the Internet Direct sales attributed to the Internet are predicted to grow from 2-3 per cent

today to about 17 per cent over the next five years. Electronic Commerc Research Report: KPMG Management Consulting, London; telephone 44 (0) 171 311 8786

Magazine: Doing Business Online

The first of a new series of glossy magazine guides entitled 'Doing Business Online', will appear with the next issue of the FT-IT Review on Wednesday,

December 4. Features in the new guide, produced in co-operation with '.net' magazine, will look at security issues on the Internet and ways to creat corporate web sites. For details relating to this and other regular FT-IT features, please see the information panel on

Page Two of this review.

helps to keep existing clients. A client-focused relationship management system provides a very strong means of building long-term market share and consistently growing profits.

SBC Warburg, a division of Swiss Banking Corporation, the global investment

bank, is very aggressive about using its relationship management According to Otto Benz, PT project leader: "We will extend Notes to more clients, improve the quality of our presentations, increase our marketing options and stay

Telephones and marketing • By Michael Dempsey

Machines are the answer Pinpointing the best sites

Companies have begun to exploit the integration of computers and telephones

o matter what the time of year, the IT sector always has a flavour of the month, And. judging by the flurry of marketing activity, extolling the virtues of call centres and the allied technology of computer telephony integration (CTI), it appears that linking processing power to the humble telephone is the next great hope for an industry. that never misses an oppostunity to market a conce

A growing number of callcentre contracts would seem. to bear out the marketing turning to computerised call centres to shed staff by fewer salaried amployees?

Schema, a London-based a week, every day of the telecoms consultancy, has conducted interviews with 500 businesses across Europe that use CTI. It concludes that the market for these systems will grow from less than \$100m (£64.1m) in 1995 to more than \$1bn by 2000. When it last carried out this survey, in 1992, only 4 per cent of companies interviewed had, or planned to, install CTI. Now that figure stands at 13 per cent.

Off-the-shelf packages which can exploit CTI hardware or add value to other applications are also beginning to arrive in significant

This is opening up CTI to businesses which might not seem obvious targets for leading-edge technology. The key lies in the way the technology extends the scope for contact with customers for retail outlets.

Milk Marque emerged in 1994 when the UK's statutory monopoly in milk sale and distribution, represented by the Milk Marketing Board, was deregulated. Dairy farmers could now choose where to take their produce. Milk Marque collects, tests and sells milk for some 20,000 farmer members. The company realised that costs would become critical



The CTI market in Europe will be worth \$1bn by the year 2000.

ture based on five areas has cess which does not require been replaced by a central a member of staff. steering telephone inquiries help desk with one call caninto a remote system with tre. This employs 12 staff working on roles seven days

> To make such a lean operation work, Milk Marque divided calls between complex queries needing expert intervention and routine calls, in an operation dealing with 2,000 calls a week. It turned to Germany's Siemens to implement a call centre that would meet this specification.

> Jack Griffin, manager for voice applications at Siemens in the UK, says that his company makes money out of CTI by focusing on integration. "Siemens might charge around £20,000 for a system, but that would buy a very basic box. It all needs to be set up very precisely. You're talking about a technology that's very hard to understand, the issue is how to get it serving the business

quickly.' Milk Marque bought an automated call distribution system which takes calls and queues them into another Siemens product, an integrated voice response (IVR) system. The IVR is linked to Milk Marque's Sequent computer system containing the results of milk quality tests. A farmer rings in, presses the hash key on his phone, gives his membership and personal identity numbers, in a competitive market- and then interrogates the

push. But are companies just place, so a traditional struc- computer using IVR, a pro-

This attribute of CTI, removing the need for some personnel, is not as ruthless as it might sound. "Many jobs in call centres are seriously boring." Griffin

explains. People burn out, they just don't last long dealing with these queries. We remove the boring bits of the agent's job so the customer only discusses real live matters with

IVR exploits the milk test database by pretending to be a number of computer terminals. It can pick up the latest information typed into the system and distribute this by following its own script. This process is known by the unlovely but memorable term "screen-scraping".

Human intervention continues alongside IVR. Siemens has configured Milk Marque's call centre to flag calls from Wales and divert them to a Welsh-speaking phone agent

Many call centres boast about the information made available to staff via computer screens. Griffin notes that Milk Marque no longer has computer terminals on its agents' desks - the human side of the equation

"Milk Marque has devolved the tedious side of its work held on the large Sequent computer, to IVR. Machines talk to machines and people talk to people." This is the kind of result IT suppliers have promised for the last two decades, but rarely, if ever, delivered.

involves phone contact only.

processing. It also gives

access to a management

information system through

which account managers can

track exposures, revenues,

and product profitability. "It

acts as a single window

though which an account

Groupware

building

systems

products are

relationship

management

manager receives all the

information he or she needs

to manage the relationship

effectively and out through

which he can send any com-

munication," says Robert Frazer, head of marketing.

cations, relationship market-

ing systems are closely tied

with changes in corporate

forming the way people approach the business, and

the way in which they are

communicating so much

more affectively now, has

Like all groupware appli-

often ideal for

Application

The commercial possibilities of this have begun to impress users. London Electricity, the £1.3bn utility serving two million customers, plans to offer time and capacity through its new purpose-built call centre in Sunderland, hundreds of kilometres north of its London

London Electricity has welded together an ACD system from US electronics valid information in the giant Rockwell, IVR from mass of data acquired by another US supplier Syntal-computer-literate large busilec and software that stores and retrieves call data from UK CTI specialist Inference. Gordon Critchlow, cus-

tomer communications manager at London Electricity, says his company handles two million calls a year. A London Electricity employee since 1968, Critchlow is about to relocate to Sunderland. Faced with an open market in UK electricity supply from 1998, London Electricity wants to be a national utility. And the potential of its CTI operation should add

to its turnover.
With ACD able to identify which supplier a caller is searching for, there is no reason why it shouldn't supply call centre facilities and experience - to other

CTI growth is not another IT marketing illusion. London Electricity is one of 220 companies that have joined the Call Centre Manag Association within 12 months of its founding. The reason behind this explosion in sales may well be the fact that smart users can sell on their own expertise with no extra outlay on the original call centre investment.

Business planners to a small number of toprange machines.

are able to make shrewd campaign decisions with the use of data

mapping software

or a very obvious con-cept, data visualisation has taken a long time to arrive. Expressed in its most simple form, it entails expressing a mass of numeric information in a colourful format.

This allows saliant points to be grasped quickly, which in turn means pulling out facts that make a difference in the commercial market-

Data visualisation owes its current status to a number of factors: the entire field of data-mining, the search for ses, has focused attention on what can be gained by a shrewd evaluation of existing material.

Another reason for the rise of data visualisation is that when material is represented graphically, it is a lot easier to understand - and IT analyais has spread into all lev-

els of management. Businesses that need to react to market trends cannot want for lengthy technical examination of their sales data by distant specialists. They want to put the power to reach practical consultants at the fingertipe of

Finally, there is the cost factor. Cheaper processing power is continually cited as the reason for trends such as client-server computers displacing the large, expensive mainframe of yesteryear.
But the proliferation of powerful computers that do not soak up haif a company's IT budget also allows the user to experiment with new 'fla-

yours' of software. IT suppliers who offer data analysis services using visualisation techniques can cost-out their time at a realistic rate if they are not tied

E Data vieualisation in marketing . By Michael Dempsey

Keith Bear, an IBM business manager in the UK, is active promoting Diamond, a main sales offices, plus sup-2400 package that allows traders to apply data visual-mation to financial statistics. Developed with US software house, Infinity Systems, Diamond is aimed specifically at risk management.

"Based on our models, it allows you to take historical data and project that forward. It gives you a way to test assumptions and correlation," says Bear.

Investment bank JP Morgan provided the risk factor data that underlies Diamond - and JP Morgan's contribution to this product highlights the importance of having the right parameters fed into a data visualisation

Getting the rules right before you begin to interpret data in a graphic form is known in this field as establishing a "gravity model". The gravity model is essentially the weighting given to comparative types of information; while the actual data visualisation product may appear quite cheap, the kind of information it demands can be expensive to

Network

acquire.

Nigel Weston, business strategy manager for Daewoo Cars, relied on data visualisation techniques to devise a dealer network that

spans the UK. Daewoo, a Korean conglomerate ranking as the 33rd largest company in the world, formed a UK vehicle subsidiary in 1994. Starting with a clean sheet gave the company a chance to place dealerships and support outlets where they could best serve the target customer-

"Daewoo's gravity model was clear before the company paid for any software You have to write the rules." says Weston, "and for Daewoo, people of a certain and income are critical." , people of a certain age

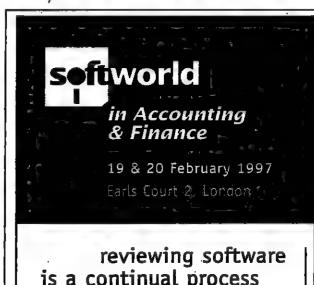
The company had identifled people over 55 as a key they have purchased. This purchasing community. Daeentails attaching some form woo wanted to locate its 30 of critical tag, typically a port facilities, in the right spot. It turned to Mapinfo, a £1.100 desktop mapping

We run this as a centralised mapping system. It allows us to plan outlets, any recalls of models and customer distribution. We use it to plan local marketing campaigns and media spending," says Weston. Maninfo users must Geo-

paid for population census

postcode, that allows Map-info to display data. The resulting map can feature simple colours, or symbols the user requires. Daewoo used Mapinfo as a software engine. But it also

and mapping information. Further software, Mosaic a collection of lifestyle data that goes down to every 15th



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Web sites will make work easier



Continued from facing page:

cations.

des plus historical information on each customer; taken a step further, it could also help to produce personalised presentations for cus-

An Internet-based solution also brings several important support benefits. Since the only thing the sales person needs is a portable computer with an installed web browser, support costs are lower. The web site can be set up to provide all the information and control the display of that information without requiring the user to run their own spreadsheets or presentation appli-

Java or ActiveX-based applications can be developed to add further func-

programs when required, rather than have to carry them around constantly. Database companies such as Sybase, Oracle and Informix are rapidly adding fea-

tures to their databases that help support a remote sales force by using internet con-"We allow you to take advantage of distributed

computing by giving a por-table laptop to a sales person. We've introduced things like message replication so that whenever you get the chance to get connected to the home system. you can replicate changes from your database to the corporate database," says David Hseih, vice president of enterprise product marketing at Sybase.

world would say 'take away

Oracle also sees big opportunities in enabling its databases to create web pages

'on the fly' for applications

such as supporting a remote sales force. "If you look at the content on intranets and the Internet, most of it is static pages. Whereas most of the interesting data that people and cuterprises use within the enterprise, as well as "The centralists of the their suppliers and custom-

database for security pur-poses, reliability, availability - all those things. So what we see is that the web is going to evolve from static documents to dynamic documents where the contents will be constructed when the user makes the request for what they want," says Schafb Abbasi, senior vice president of Oracle's tool product division.

While giving a sales force access to a web site brings the same concerns over security, firewalls can be constructed and security procedures established that makes it very difficult for outsiders to gain access to sensitive information. And ultimately, the same system could be used by customers to make place their orders themselves and conduct the entire sales process in one

we can get 'a thousand widgets in red out to the customer. We don't think that's the way to do it," he adds. Opportunities

and let them call into the

home office and talk to

someone about whether

we've got that product in

inventory' or how quickly

XVIII

Interview with Peter Schnell, co-founder of Software AG . By Geoffrey Nam

Passing the baton to a new generation

Marketing is of paramount importance to IT companies, says Peter Schnell and he cites Software AG and SAP as examples of European companies successfully competing with bigger US suppliers. Today, Schnell's company has customers in more than 80 nations

n 1969, Peter Schnell, coset out to crack IBM's dominance of mainframe

The technology he developed, Adabas, still wins by Mr Schnell until 1993, orders today, and the company, one of Europe's leading software houses, is poised for a new phase of foundations, to ensure the growth as a supplier of data company's independence warehousing software and other products that turn data into valuable informa-

Mr Schnell, however, will into this new era as he announced his retirement as chairman at the beginning of this month. At the age of 58 a friendly bidder. and after 30 years in the computer industry, he has decided it is time to pass the baton to a younger generation better prepared to cope with the dramatic changes sweeping through the oncesleepy world of database

Software AG, based in founder of Software AG, Darmstadt, is Germany's house behind SAP and, like software by building a better the latter, it has stubbornly remained a private company. All the shares were owned when he placed the entire holding, reportedly worth around \$500m, in two private after his retirement.

Three of SAP's founders recently did the same thing. Times change, however, and Mr Schnell believes Software not be taking Software AG AG will soon have to seek external funding, either through a flotation or by offering a minority stake to

"It's no longer true that ply by investing its profits in innovation. The innovation cycles have become too short and now we need new capital. I have no doubt that Software AG cannot stay

The list of potential partners is long. One obvious second largest software candidate is SAP, which has a similar culture, and activities that dovetail well with those of Software AG. Another possible suitor is Microsoft. Software AG is converting Microsoft's object technology, called Distributed Component Object Model, to run on mainframes and the fruits of this collaboration, predicted for next

year, will take Microsoft into

"Microsoft knows the consumer market is not 'everything' and they obviously want to get into the very lucrative market for enter-prise computing," says MrSchnell. The prospect of the company he started 27 years ago having to accept external shareholders does not disturb him.

"it is a major change, given the history of the company, but we have to adapt to the needs of the real world," he says. Software

through a rough patch and reported a net loss of DM50m for 1995. It is in the middle of a restructuring programme which includes abandoning non-strategic activities and refocusing on a smaller number of lines of business. It hopes to be profitable again in 1997, but to achieve this it has to save DM100m in the next two years.

blow for Mr Schnell who is increasingly worrled about the social consequences of the information revolution. "Using IT to slash costs is

a real time-bomb and we cannot act as if nothing has happened," he says. Last June, the topic was explored in Software AG's annual symposium, which had as its theme "Information Technology with a Human Face". known for its Adabas datahase and the Natural fourth

ous for rapid change and Software AG has more than 5,000 customers in more

than80 countries. Adabas

generation language. These

products have kept the com-

pany successful and indepen-

dent in an industry notori-

AG is currently going was originally developed for Schnell's fortune in the early mainframes but its latest days, but he says the prodincarnation, Adabas D, works on many types of PC and server platforms. It can be used with standard relational databases from vendors such as Oracle, Sybase and Informix, though Mr Schnell clearly believes Adabas is superior.

"The 'relational' approach was a function within Ada-Roughly 350 people will bas long before these other lose their jobs – a bitter companies were founded and Adabas includes other data models that you cannot do with a purely relational database," he says.

> he Adabas technology was recently enhanced to manage World Wide Web documents on a web server, and Mr Schnell sees a bright future for Software AG in the Internet age. However, he cautions against companies rushing into building intra-nets and distributed

"Nearly all distributed projects fail to meet their price tag because the moment you distribute something, you get problems you never realised before. There is an extra dimension of complexity." be says. Adabas made Mr

uct represents just a fraction of the company's revenues today. The new focus is on products that sit on top of easier to use within organisations. These include products to model data and extract it from existing databases, reporting and query tools to allow non-technical managers to access a database, and data warehousing products.

"Every other year the industry has to invent a new buzz word and 'data warehousing' is the latest. The concept, however, is 100 per

cent valid. "Data warehousing is completely different from the way computers were used in the past. Instead of automating business processes, you take existing data and create something out of it which -

for you - as a human being.

is information. Back in the 1960s, when Mr Schnell was working as a computer consultant in Darmstadt, his clients were struggling to make sense of the data on their mainframes. "I did projects for large companies and found they were constantly trying

schnell: stepping down after 30 years in the busin

Exploiting his background in mathematics research, he set out to build a database that would answer these cries for help...and so started Software AG.

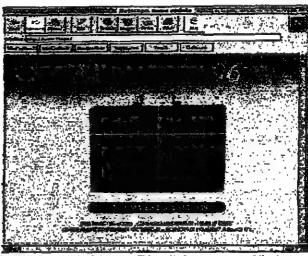
It has taken 30 years, but Mr Schnell believes the data warehouse could finally crack the problem of turning unintelligible data into useful information, thanks to the recent arrival of relatively inexpensive processing power that makes the data warehousing concept affordable for business

The data warehousing market is predicted to be worth \$7bn in 1997, but is hotly contested. Software AG has strengthened its marketing muscle by poaching a director to oversee marketing and customer service from the US computing services giant EDS, and Mr

to re-invent the wheel," he tured company is more market-driven than it was in the past. He cites as an example Dmart, an easy-to-use "data mart" product unveiled recently. Data marts are small data warehouses tailored to a specific group of users or applications, such as marketing or customercommerzb.in

information systems. According to Mr Schnell, marketing is of paramount importance to IT companies and he cites Software AG and SAP as examples of European companies successfully competing with bigger US companies.

He wishes there were more examples to cite, however. "European firms have a tendency to invent things and not understand how to make a product out of it. But in the US, there is more emphasis on marketing, which speeds up the testing of new ideas. In Europe, we more or less want a 'guarantee' it will work," he says.



redict the contents of Chancellor Kenneth Clarks's discetch box in the run up to the big day. The FT web site will be offering full poverage of the Budget, with reaction and analysis of what the 's decisions will mean for a range of inc opeyers. The FT web site (http://www.FT.com) will carry full details

The best sites

Continued from page 17:

household – gave Mapinfo

more critical information to analyse. Mapinfo threw this data up in terms of a thematic map, showing hot and cold areas, depicted as red and

"We used our gravity model to consolidate on the central areas of chosen populations within a given drive time," adds Weston adds. None of this effort came

for usual PC software prices. According to Weston, Daewoo's annual budget for planning using data visualis ation, in conjunction with geographic information systems, amounts to £60,000. He says, however: "It's money well spent - you have to rationalise that expense against the £60m we've spent on sites and also consider the financial conse-

quences if we put one site in the wrong place. "It's a minimal cost in terms of what's at stake." Weston notes that "specialist consultancies in the field can charge £30,000 per town to carry out this kind of analysis and we needed 40

or 50 towns studied". Including after-sales support operations, Daewoo has 176 premises that owe their address to data visualisation projects. From a standing start, it has cornered 1.8 per cent of the British car market, selling over 17,000 vehicles between January and September 1996, with a brand that no UK driver would have recognised two

A 'datamap' button on Microsoft's Excel spreadsheet designed to work with the Windows 95 operating system, now introduces users to a cutdown version of Mapinfo. Thus, data vis-ualisation is selling cars and seeping through onto the

Excitement over Java

Continued from page 1:

vere few Java development tools available, Java developers had limited experience with the language and that development processes were experimental or undefined.

Sun's Lambert argues that most of these issues have since been resolved. He points out that there is now a wide range of development mated 200,000 Java developers - a number which is fast catching up with the 400,000

'An earthquake'

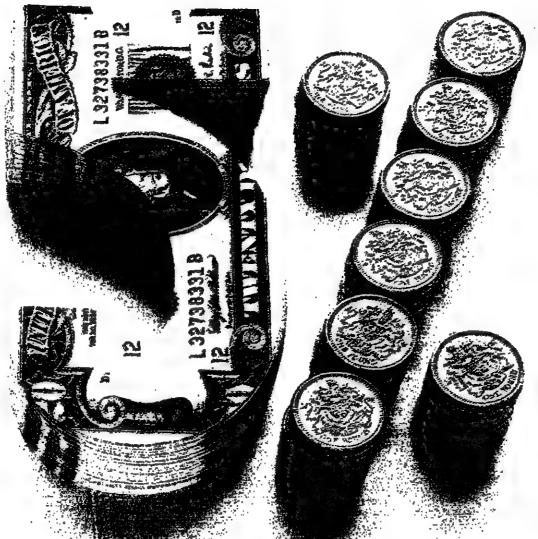
Indeed, some analysts, including Robin Bloor of the Bloor Research group, pre-dict that Java is at the epicentre of a seismic shift in the global \$650bn computer industry which could pose a serious threat to Microsoft and Intel, the two industry powerhouses created by the explosion of the personal computer - "this earthquake will totally re-arrange the IT landscape, affecting all vendors of IT products and services as well as their cus-tomers," he says.

"Java will turn the World Wide Web into a vast network for client/server operation...because Java exe cutes anywhere: for the first time, software application development can take place separate from an operating system. This enables the internet, changes the client/ server paradigm and smashes the door open for the 'thin client' [i.e. a stripped-down PC - or an 'NC' - designed to work across a network)."

Office software market: Microsoft gains ground in the intranet arena, page 9. □ Business applications for intranets: see pages 11-13.







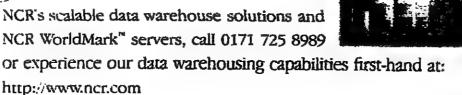
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FINANCIAL TIMES COMPANIES & MARKETS

OTHE FINANCIAL TIMES LIMITED 1996

Wednesday November 6 1996

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IN BRIEF

Commerzbank profits up 37%

Commerzbank, Germany's third biggest commercial bank, announced a rise of 37 per cent in operating profits for the first nine months to DM1.67bn (\$1.1bn). However, the result was below some analysts' expectations and represented a slowdown from the 48 per cent advance of the first half. Page 16

HK Telecom advances 12% at mid-term Hongkong Telecom announced a 12 per cent rise in net profits to HK\$5.39bn (\$697m) for the six months to the end of September. However, the company, a subsidiary of Cable and Wireless of the UK, lost 15 per cent of its international market share in the first half of the year, compared with the same period in 1995. Page 20

BP third-quarter profits up 9% British Petroleum reported third-quarter earnings in line with market expectations. Net profits for the quarter were up 9 per cent to £650m (\$1.05bn) on a replacement cost basis and before exceptional items. Net earnings for the first nine months of the year were a record £1.98bn. representing an 18 per cent rise from last year.

Gebe in Lloyds Chemists bid The battle for Lloyds Chemists intensified as Gene of Germany returned to the fray, bidding £650.6m in cash for the high street pharmaceuti cals chain. Page 22

Whitbread pre-tax profits up to £177m Whitbread resped the rewards of heavy investment in pubs, restaurants and hotels and an upswing in brewing profits, reporting a 14 per cent rise in interim pre-tax profits to £177.5m.

US demand surpe buoys market for LPG The booming market in liquefied petroleum gas has hit US petrochemicals producers hard. LPG contract prices from Saudi Arabia – the main supplier - were recently fixed at \$250 a tonne for both propane and butane, an increase of almost \$50 a tonne from the October price.

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Bertelsmann group may be reorganised

Move would allow more outside investment

By Frederick Stüdemenn In Born

Bertelsmann, the German media group, is considering a corporate restructuring which would allow some of its units to be offered. Mr Mark Wossner, chairman, said the group was thinking about making its four main business units book publishing, printing, Gru-ner + Jahr, its magazine and newspaper subsidiary, and the television and entertainment division – into public companies under a bolding

This would allow outside investors to take stakes - a marked change for Bertelsmann, which is predominantly owned by a foundation and the family of Mr Reinhard Mobn, formerly sole proprietor. An exception is Gruner + Jahr where the Jahr family retains minority stake.

Restructuring Bertelsmann, Surope's largest media group, would enable further large scale expansion, Mr Wösener

said. This was particularly true of the television and entertainment unit, which would be the first candidate This could happen within

two or three years, with the other units following considerably later. "I don't see it hap-pening in the book and printng divisions or at Gruner + Jahr for 10 years," he said.
Since postponing its plans for digital pay-TV this year,

Bertelsmann had refocused its television activities on free TV, he added. "Free-TV is significantly bigger than pay-TV. Free-TV [in Germany] has a total volume in terms of advertising revenue and licence fees of DM15bn (\$9.9bn), pay-TV only DM500m." Mr Wössner said Bertelsmann remained committed to

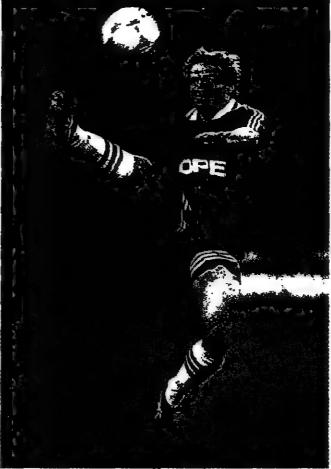
Premiere, the subscription channel in which it holds a 37.5 per cent stake. The channel has 1.35m subscribers, and is signing up some 10,000 a

for eventually developing digi-tal pay-TV, he said. But this would require the consent of rival Kirch Group, also a shareholder in Premiere. Kirch launched DF-1, its own digital pay-TV service, this year.

Despite acrimonious exchanges and even courtroom battles, talks between the two continue. Bertelsmann would like to see both networks brought closer together. "My as a stand-alone network with two core areas - films and sport - and the rest of pay-TV covered by DF-1," Mr Wössner

Premiere yesterday confirmed the expansion of its live coverage of soccer matches. The exclusive deal with the German football federation covers both digital and analogue broadcasting. It gives Premiere the right to screen two games a week until mid-

Premiere also has first refusal for the following five



Top German footballer Jurgen Klinsmann: Premiere will

Valeo future secured by sale of 27% stake

and Robert Greham in Rome

The medium-term future of Valeo, one of the jewels of the French car industry, was settled yesterday in a deal valuing the parts maker at more than FFr23bn (\$4.5bn).

The controlling 27.4 per cent stake in the company held by Cerus, the French holding company of the Italian industrigiist Mr Carlo De Benedetti, was sold to three separate buyare - principally Compagnie

Générale d'Industrie et de Par- L12,500bn to L4,500bn (\$3bn), holding company - for P330 a share, or FFr6.28bn. The move is a big retrench-

ment in the business activities of Mr De Benedetti. Mr De Benedetti and his family held the Valeo stake via their French stake in Cerus. This in turn was owned by Cir and Cofide, the family-controlled holding companies.

consolidated turnover has FFrl.45bn - a figure analysis gan GT Corporation, a subsid-been cut by two-thirds from say is within the bounds of lary of J.P. Morgan, CGIP's

ticipations, a French industrial excluding the family's 14 per holding company - for F330 a cent stake in Olivetti, the troubled computer and information technology group which is not consolidated. An aide of Mr De Benedetti described the sale as

Cerus will also benefit from an extraordinary interim dividend of FFr10 a share, as well as a possible additional FFr10 a share payment if Valeo's At one stroke, Cir-Cofide's 1997 net profits reach at least

"a big sacrifice".

possibility. The company said this could take its overall receipts to FFr6.7bn.

The deal keeps Valeo, which has been a target of speculation for most of this year, firmly in French hands. CGIP, chaired by Mr Ernest-Antoine Seillière, will end up with 20.2 per cent. Caisse de Dépôts et Consignations, a French statecontrolled financial institution, will raise its 1.9 per cent stake to 5.4 per cent. J.P. Mor-

take a 3.6 per cent holding.

The deal was concluded at 19 times prospective earnings. Mr Seillière said he had "no doubt that in three years' time we will not even remember the price we paid. I would never have undertaken this operation if it had not been in the exclusive interest of my shareholders". However, he promised the deal would not be dilutive.

Gengold backs down in mine contracts row

South African mining house Gencor, has bowed to pressure from investors for an independent valuation of mansent contracts between South African mining houses and individual

The controversial contracts have underphaned the world's largest gold industry since its inception.

cancel management contracts with the deep level mines.

of Gencor-controlled mines in Johannesburg, Mr Julian Baring, managing director of MAM, said: "The quicker South Africa comes into line, the quicker South African gold shares will be properly valued."

The system of management con-tracts for technical expertise provided by the country's biggest mining London-based Mercury Asset Management led a shareholders' revolt houses is facing mounting criticism against Gengold's proposal to charge from investors, who claim they under-

individual mines R127.6m (\$28m) to mine efforts to contain rising costs at Shareholders in Gengold's Winkel-

of most South African gold mines, plus a fraction of a percentage point of annual turnover. Mr Baring has been the chief architect of their abolition. Mr Tom Dale, Gengold managing

director, said the decision to cancel the contracts was "what shareholders are demanding". Gengold did not need shareholders' approval to cancel the contracts but had voluntarily sought their support, he said.

haak and Loslie mines yesterday voted next contracts absorb about to reject the R126.7m charge to cancel At an extraordinary general meeting 5 per cent of the total capital spending the existing management contracts. Mercury has a 26 per cent stake in them. Gengold, the largest shareholder, abstained.

Rand Merchant Bank and UAL, the merchant banks which carried out the valuations, defended the charge. They said the contracts were worth R17m a year over ten years, adding that the one-off payout was tax deductible and would cost the mines only R63m after

BA joint bid for French carrier approved

By Ross Tieman and Michael nkar in London and David Owen in Paris

British Airways yesterday won its battle to take over Air Liberté, the independent French carrier, with the Rivaud bank-

The commercial tribunal in Creteil accepted BA's plan to invest FFr440m (\$86m) in the airline for a 67 per cent stake, Rivaud will provide FFr190m.

Mr Marc Rochet, chairman of TAT European Airlines, BA's existing French subsidiary, will run Air Liberté. BA. said the two airlines would be kept separate "for the time

Attention in France will now witch to AOM, another domestic airline, owned by Crédit Lyonnais, the bank.

The state-owned Consortium de Réalisation, charged with selling Crédit Lyonnais' assets, is expected to sell the airline before further liberalisation of air travel in the spring.

Air France hinted last month it might eventually bld. although European Commission conditions attached to a FFT20bn aid package will probably rule this out until next

BA yesterday reported its first fall in first-half operating profits since the Gulf War five years ago, blaming higher fuel prices and the impact of a threatened pilots' strike.

Operating profits at the UK's leading sirline slipped by 2.1 per cept to 2512m. But a £26m contribution from Quantas in Australia and a £17m dividend from USAir helped lift pre-tax profits for the six months to September 30 9.8 per cent to £470m. This was in line with expectations.

However, alower-than-expected passenger growth contributed to analysts paring fullyear forecasts; UBS, house broker, reduced expected pre-tax profits by £80m (\$49m) to

The figures were aided by a £21m reduction in interest charges, as gearing eased to

Although further fuel price rises were expected, Sir Colin said, the economic outlook for

BA's main countries of operation remained encouraging. He added that the airline planned to cut costs by \$1bn in the months ahead.

Barry Riley

Growth investors who came in from the cold



always try to cheer themselves up by est research studies telling them just how correct their strategies are.

Whether their revived spirits will survive the publication of their 1996 performance numbers is, alas, another matter. share price data have recently been produced by Mike Lenhoff of the private client man-agers Capel-Cure Myers and also by Paul Walton of Gold-

man Sachs in London. In the US, James P. O'Shaughnessy's book What Works on Wall Street has been

All show that value-based stock selection strategies heavily outperform growth styles in the long run. Putting it the other way around, inves-tors have tended to overpay for glamour to a quite extraordinary degree. They have in the past, anyway, But right now it is the growth managers

who are smiling. These studies vary in their methodology. O'Shaughnessy has access to a longer run of investigators - 44 years against just over 20. The Walton results are affected by survivorship bias, because the same stocks are followed over the whole period. The US analysis may to a slight degree be distorted by the reverse effect - "look-ahead" bias - because

financials.
It is not clear how much the

subtle differences in the results reflect these variations or whether there are genuine contrasts between the US and UK markets. According to Lenhoff, four

value styles have worked almost equally well in the UK - low price to sales, low price to cashflow, low price to book value and low price to earn-Analyses of long-run UK ings. High dividend yield thare price data have recently works much less well. Curiously, Walton finds high yield to be the clear winner (along with small capitalisation). He does not rate the other value factors very highly at all.

> Low price to book, a very popular style in the US, is revealed to be volatile

As for Wall Street, low price to sales emerges as the clear winner. The inverse growth strategy, high price to sales, has worked only very rarely, in speculative bull markets consistent data than the UK such as that of 1987. High dividend yield, says O'Shaughnessy, only outperforms with big, well-capitalised stocks: for smallcaps it is in fact a negative indicator.

revealed to be volatile. It performed very well in the 1980s new, successful companies but high price to book was suchave entered the database. cessful in the 1950s and 1960s, fund managers time is a hux-Lenhoff looks only at larger and chasing book value has ury indeed.

Perhaps O'Shaughnessy's most surprising statistic is the poor return from so-called growth stocks. A portfolio invested in 1951 in the 50 stocks with the highest p/e ally until 1994, would have underperformed overall by 4 per cent a year, and was volatile too.

However, Lenhoff suggests that high price to earnings may not in practice be a good proxy for high long-term earnings growth. There may be a lot of short-term cyclical recovery stocks mixed in. Walton's contribution bere is that high p/e works over one year but not over three, which again suggests that the market is poor at predicting earnings growth over the longer term.

incidentally, Walton is par-ticularly dismissive of low price to book as a factor in the UK market. There is presumably a methodological difference from the Lenhoff study, which finds that this style works, albeit with big swings over time. The same applies to low price to sales, which hugely outperformed between 1982 and 1988 but has often lost money, relatively, at other periods.:

So much for history. In the UK, the FTSE 350 Higher Yield Index has underperformed its Lower Yield twin by 8 per cent in 1996 so far. The average UK equity income sector unit trust Low price to book, a very has underperformed its growth popular style in the US, is sector counterpart by 5 per has underperformed its growth cent over the past 12 months. Time may extend its healing

EQUITAS

Financial adviser from October 1994 to September 1996 in connection with the formation of Equitas



Financial adviser to Sun Alliance on the £6 billion merger with Royal Insurance



The Rothschild Group

is pleased to have advised on these major transactions

1996

SE-Banken advances to SKr4.4bn

in Stockholm

Skandinaviska Enskilda Banken, one of Sweden's leading banks, more than doubled profits in the nine months to end September as it sharply cut loan losses and underlying operations mostly performed strongly.

Operating profits rose from SKr2bn in the same period last year to SKr4.4bn (\$666m) near the top end of analysts' expectations. Earnings per share jumped from SKr3.16 to SKr6.33. The result followed solid

earnings growth reported losses in the first nine last week by Svenska Han-months fell to 0.65 per cent

delsbanken, SE-Banken's tra- of its total loan portfolio - a trading and corporate ditional rival, and cheered return to "normal" levels investors. SE-Banken shares rose SKr1.50 to close at the early 1990s. SKr57 and the banking index on the day.

The biggest single factor in the profits rise was a 66 per cent fall in loan loss provisions, from SKr3.63bn at the same stage last year to SKr1.23bn. The fall reflected the heavy loan loss suffered last year linked to the failed financial services group. Luxonen.

The bank said lending

after the credit loss crisis of

Profits before loan losses on the Stockholm bourse slipped slightly from rose more than 1.25 per cent SKr5.67bn to SKr5.65bn. But net interest income rose 10 per cent to SKr5.44bn, mainly because falling interest rates produced an increased yield on the bank's bond portfolio and lower costs of financing problem assets. Mr Biorn Svedberg. chief executive, added that there were indications of a break in a long trend of narrowing margins between lending and deposit rates.

finance operations - one of SE-Banken's traditional strengths - led to an 11 per cent rise in net commission income, to SKr3.43bn.

A less positive development was an 8 per cent rise in costs from SKr6.95bn to SKr7,47bn, including a 12 per cent rise in staff costs. Mr Svedberg said a programme of technology investment the bank is spending heavily on preparations for European monetary union and the 'millennium problem'. which threatens the dating systems of business computers after the turn of the cen-

The bank's balance sheet was significantly affected by its spin-off in September to its shareholders of Diligentia, the company it had set up to manage the extensive property portfolio taken over during the credit loss crisis as security against bad

At the end of September. SE-Banken's capital base stood at SKr33.8bn, down from SKr36.1bn a year previously. The core capital ratio was reduced from 9.1 per cent to 7.1 per cent. The Diligentia spin-off also reduced the volume of assets taken over against bad loans from



Commerzbank suffers setback in growth rate

By Andrew Fisher

Commerzbank, Germany's third biggest commercial bank, yesterday announced a rise of 37 per cent in operating profits for the first nine months to DM1.67bn (\$1.1bn), helped by a sharp rise in net interest income and the favourable impact of strong securities markets on commission business.

below some analysts' expectations and represented a slowdown from the 48 per cent advance of the first

The bank's shares fell 13 pfennigs to close at DM33.97. chairman, said equities business had weakened in the July-September period after developing well earlier in the year. But he expected a more dynamic fourth

He also repeated the

on the debate over possible restructuring in Germany. "We are not buying anyone, nor do we see the likelihood that anyone will buy us. he said, noting that the hank's market canttalisation was around DM15bn. But he expected a further concentration in public sector bank-

Commerzbank said its pretax profit - virtually the same as the operating result, However, the result was since extraordinary items were minimal - was 49 per cent higher than in the same period of last year. Assuming a 40 per cent tax rate. net income would be around

This would be equivalent Mr Martin Kohlhaussen, to a post-tax return on equity of just over 11 per cent, or nearly 19 per cent before tax. The bank has set itself a target of 15 per cent after tax in 2000. Mr Kohlhaussen also said the costincome ratio had fallen from 69 per cent a year ago to 64 bank's determination to stay per cent. "but we still have independent in a comment further to go". Costs were 7

the first nine months, a slight slowdown from last

per cent higher at DM4.4bn, reflecting a positive trend in treasury business, a rise in total lending and the broader capital base. The interest rate margin was down from 1.47 per cent last year to 1.39 per cent, where it has stabilised in the second half.

Fee income, helped by increased securities commissions (up nearly 40 per cent to DM685m), was 19 per cent higher at DM1.7bn.

Own-account trading activities produced a gain of 11 per cent to DM402m, of which DM104m came from foreign exchange dealings, DM220m from interest-based futures and DM66m from securities trading. Mr Kohlhaussen expected an improved proprietary trading result in the fourth quarter as unrealised gains were



Valeo deal hailed as happy coincidence

many outsiders to yester- pling its stake in Valeo to 5.4 day's Valeo deal: one French per cent. industrial holding company will buy the bulk of the shares held by another in the much admired car parts manufacturer, which will remain firmly in French

This follows concerns voiced earlier this year by French car industry leaders and others about a possible purchase of the stake by a

alive and well. That troiled Caisse des Dépôts et will be the reaction of Consignations nearly tri-

Under the terms of the complex transaction, Cerus, Italian Industrialist Mr Carlo De Benedettl's French holding company, is selling its controlling 27.4 per cent interest in Valeo in a deal valuing the parts maker at more than FFr23bn (\$4.5bn).

The majority of these shares - amounting to a 20.3 per cent stake in Valeo - are being bought by Compagnie

Participations, the industrial holding company chaired by Mr Ernest-Antoine Seillière. a Valeo board member. The balance will go to the Caisse de Dépôts, which is adding to its existing 1.9 per cent interest in Valeo, and to a subsidiary of J.P.Morgan, CGIP's adviser on the deal, which will take a 3.6 per cent stake.

Mr Seillière yesterday insisted he was "absolutely not solicited" by the government. His only contact with Valeo in French hands. the administration had been

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Générale d'Industrie et de to inform Mr Franck Borotra, industry minister, on October 14 of the state of the negotiations. "If there is a all its Valeo shares with national plot, I don't know about it.

> But the government, which has come under intense fire in recent weeks for sanctioning the proposed sale of part of the stateowned Thomson electronics group to Daewoo of South Korea, will no doubt be relieved that a solution has been found that will keep The help of Caisse

Mr Seillière said. One important consequence of yesterday's deal is likely to be to turn Valeo into a more aggressive pursuer of external growth. As Mr Noël Goutard, Valeo chairman, explained, the change in the company's shareholders will enable it to

turned out to be necessary to square Cerus's desire to sell

CGIP's wish to retain a bal-

anced industrial portfolio.

"We did not want to be seen

to help finance the purchase of other companies for the first time in about five years. This increased freedom will mean that it will no longer be obliged to finance growth from cash flow. Mr Goutard indicated the company's dividend policy would

consider issuing new shares

take account of this. Cerus said it would use the FFr6.7bn it hopes, all told, to receive from the deal to reduce debt and make a payment of about FFr100 a

share to shareholders. Mr Michel Cicurel, chairman, said the company still had about FFr3bn of nonstrategic assets it was looking to sell after the sale of the Valeo stake. But he said Cerus would also seek new investments. Mr De Benedetti had told board members that he wanted to reboot Cerus". "After five years of difficulties, Cerus is ready to make a new start,"

David Owen | taking over Heckert.

resolve future of Traub A deal to create Europe's

Talks may

biggest machine tool company with annual sales of about DM1.3bn (\$859m) could emerge from talks between Traub and Gildemeister, two of Germany's largest machine tool compa-

However, the move could be scuppered by separate discussions in which Cincinnati Milacron, the large US industrial equipment maker. has expressed interest in acquiring all or part of Traub.

The talks have been sparked by severe financial problems at Traub, which has entered into the early stages of administration after running up debts esti-

Traub said yesterday it was optimistic. "There will definitely be a solution," it

If either of the plans goes ahead, the resulting company could play a pivotal role in the reshaping of the DM12bn-a-year German machine tool industry.

Germany's is the bigges tool sector in Europe, but it has been financially stretched for the past five years as a result of high labour and plant costs and stiffer international compe-

A deal between Tranb and Cincinnati, the US's fourthbiggest machine tool producer, would provide Cincinnati with a long-sought selling and production arm for machine tools in continental Europe. The company last year had revenues of \$1.6bn, of which a quarter was from machine tools.

Agreements over Traub's future are tied to discussions over debt repayment by the 14 banks, led by Deutsche Bank, which until last week were owed DM230m by Traub.

It is thought that for any deal to proceed, the banks will have to write off a substantial part of the money they are owed by Tranh, on. top of the DM100m they have already agreed to

waive in the past week.

As a result of discussions concerning Traub's status of provisional administration, which it entered into last month, the banks have agreed in principle to reduce the company's debt liability to DM180m.

Mr Olaf Tölke, an analyst at Merrill Lynch, the US bank, said he thought the most likely outcome was an all-German solution to Traub's problems, involving an alliance between Gildemeister and Tranb.

However, such a venture would almost certainly require the agreement of the German cartel office. Gildemeister, with annual sales of DM740m, is Germany's second-biggest tool company, while Traub, with annual sales of DM560m, is the fourth biggest.

A link with Gildemeister would not be a soft option for Traub. Gildemeister is also heavily in debt and fac-ing competition from lowcost machine tool suppliers, especially from the Far East. In another development. Heckert, a Traub subsidiary based in Chemnitz, eastern Germany, last week went into receivership as a result of its financial problems. Niles and Heller, two German machine tool companies, are both interested in

EUROPEAN NEWS DIGEST

Marchionne chief at Alusuisse-Lonza

Mr Sergio Marchionne, a 44-year-old Canadian, has been named as the next chief executive of Alusuisse-Lonza, the Swiss industrial conglomerate, Mr Marchionne joined Alusuisse in 1994 after its \$555m acquisition of Lawson Mardon, the Toronto-based international packaging

His rise to the top of the Swiss company, which employs 31,000 people and has an annual turnover of SFr7.5bn (\$5.9bn), has been helped by the departure over the past two years of two potential rivals. Mr Marchionne took over as Alusuisse chief financial officer in January 1995 after Mr Georges Schorderet moved to be Swissair chief financial officer, and in August 1995 Mrs Dominique Damon, Alusuisse deputy chief executive. left the

Analysts welcomed Mr Marchionne's appointment, saying it reflected the company's growing international stature. He will take over in April 1997 when Mr Theodor Tschopp, 59, replaces Mr Hans Jucker, 69, who is retiring as chairman. Mr Marchionne's role as chief financial officer is being taken by Mr Urs Fischer, 42, who joined Alusuisse-Lonza in 1987 as a financial analyst. Mr Peter Kalantzis, 51, head of the group's chemicals business, is moving to the newly created post of head of corporate development and will be chairman of Lonza.

William Hall, Zurich.

Wedel look

salty small t

future grass

Spain starts sell-off drive

A much-heralded privatisation drive by Spain's centre-right government has got under way with an agreement to sell a loss-making mining company in the south-western Huelva region to Navan Resources of Ireland. The Irish company said it would pay \$3.43m for Minas de Almagrera, as well as assuming \$5.3m of the company's debt, under an agreement with the Spanish industry ministry's Sepi portfolio unit. Sepi said the sale was the only means of salvation for Almagrera, which mines copper, lead and zinc. The company's modern metallurgical complex would be used to process ore from Navan's own operations at nearby Aguas Tenidas, allowing considerable cost reductions, it said. Almagrera posted a loss of Pta600m (\$4.7m) in 1995 on turnover of Pta4.7bn. It has losses in the past four years of more than David White, Madrid

KPN raises TNT stakes

KPN, the Dutch postal and telecoms group which is mounting a A\$2bn (US\$1.57bn) friendly bid for Australia's TNT, yesterday announced that it had acquired a further 2.8 per cent of its target's ordinary shares, and another 3.7 per cent of the converting preference shares. This takes KPN's stake in the transportation group to 19.6 per cent of Nikki Tait, Sydney

VW expects strong year

Volkswagen, the German automotive group, said it expected clearly higher earnings in 1996 compared with a net profit of DM336m (\$222m) in 1995. But the company reiterated that it was not satisfied with the current return on sales. The shares closed up DM2.25 at DM615.50. VW posted net profit in the first nine months of DM465m, up from DM165m a year earlier. VW attributed the earnings growth to the success of the parent company, its Audi mit, its Brazilian subsidiaries, success in the Asian-Pacific region and at its financing and financial services division. Losses at its Seat unit and in North America had declined from year-ago levels.

Cash flow in the nine-month period including leasing activities, rose 8.9 per cent, from DM6.91bn to DM7.52bn. Excluding lessing, it climbed 6.5 per cent to DM4.60bn. Fixed-asset investment in the period stood at DM5bn up

Adecco shrugs off French fall

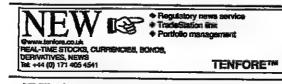
Adecco, Europe's largest tamporary employment concern, suffered a 4 per cant drop in the third-quarter revenues of its French business, which accounts for almost half the group total. However, a strong performance in North in its most important market and enabled it to increase group revenues in the third quarter by 6.7 per cent, to SFr2.36bn (\$1.86m).

Adecco was formed this year by the merger of Adia, the world's third biggest temporary employment agency, and Scco, the market leader in France. The group said that in the third quarter the temporary staffing market in France fell 7 per cent, so the 4 per cent rise in Adecco's French revenues indicated it was gaining market share. Apart from France, revenues in the rest of Europe rose 23 per cent in the latest quarter, to SFr595m. The only other weak spot in Europe was Germany, where revenues fell 4 per cent. Mr John Bowmer, Adecco chief executive, said he was pleased with the new group's top-line growth, given the tough economic environment in France, Germany and Switzerland.

Sol Melia earnings up 35%

Sol Mells, the recently floated leisure group, posted net profits after minorities up 35 per cent, from Pia2.35bn to Pta3.17bn (\$24.9m) for the first nine months to September 30. Pre-tax profits rose from Pta3.39bn to Pta4.49bn on sales up from Pta6.66bn to Pta7.95bn. Sol Melia said profit from ordinary operations climbed 27.1 per cent in the nine months to September 30, from Pta3.5bn to 4.48bn. Operating cash flow rose 20.6 per cent, from Pta3.62bn to Pta4.37bn.

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THE FIRST MEXICO INCOME FUND N.V. Curação, Netherlanda Antilles

Special General Meeting of Shareholders

THE FIRST MEXICO INCOME FUND N.V., has b ing Director, MEESPIERSON TRUST (CURAÇÃO) N.V. and will be held on November 27, 1996 at 3:00 p.m. (No

The Agenda for the meeting consists of the following its

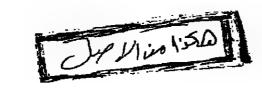
3. Adoption of amendment to Article 12 of the Corporation's Articles

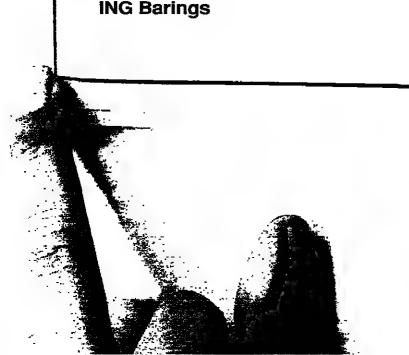
The complete Agenda. Notice of the Special General Meeting o Shareholders, General Information, Proxy Statement, Proxy Forth, Matter applement to the Offering Circular may be obtained from the offices of the ation and from the Paying Agent mentioned hereunder. Shareholder will be admitted to the meeting on presentation of their share certificates of

Villemstad, Curação, Netherlands Antilles, November 6, 199

MEESPIERSON TRUST (Curação) N.V.

CAVIDE A Sector AcesPicraon N. V Rokin 55 1012 KK Amsterdar





COMPANIES AND FINANCE: EUROPE

Why Weinberg prefers autonomous energy to ersatz synergy

Pinault Printemps chief aims to overcome flat consumer spending with overseas expansion and bright ideas, writes Andrew Jack

able view of his role as head of Pinault Printemps Redoute, the sprawling French retail group. He has little faith in the importance between the companies he controls, preferring to

encourage their autonomy. purchasing and information technology - may be best conducted centrally, he says that he prefers his different businesses to develop links with each other voluntarily and in response to their

"Synergy is the cherry on the cake," he says. "It is for-midable when it is the result of people working on the ground. It makes no sense if it comes from an artificially created structure. Our quality as a group is to break down bureaucracy, delegate responsibility and encourage

entrepreneurship." It is a message worth hearing from someone who, since he took over the group in February 1995, has steadily edged up sales to FFr38bn (\$7.42bn) and substantially FFr748m for the first six

ing his group.

All this has been achieved at a time of general gloom in the French retail sector. It has suffered from sluggish consumer spending, the of creating synergies aftermath of the terrorist attacks and strikes that hit the country at the end of last year. Moreover, new mea-Although he concedes that sures designed to protect some activities - such as small shopkeepers, by clamping down on new developments, notably in the

> expense of larger rivals.
> "We operate in an extremely complex mix of different markets," Mr Weinberg says. "Retailing must be close to our customers and very reactive. The paradox is that our role at the group level must be to operating maineages He has taken a number of

> auburbs, have been at the

initiatives to put his principle into practice. Executives in the different businesses have created informal networks to exchange ideas on computing and marketing. One result is the first mail order catalogue by Fnac, the group's books and records chain, inspired by the operations of its Redoute He has also recently cre-



conjunction with a banking partner, with initial capital of FFr25m. Funds can be

whether from employees or sale of top-of-the-range linge-

those outside the group.

Another example: after deciding that there was a niche to be exploited in the chains. Instead, it series of high street outlets

The PPR chairman says: eternal productivity gains with a fixed cost structure." His attempt to foster creativity is one reaction, given his mercial development in the belief that France will continue experiencing low eco-

"I am struck by the number of people who are centres. That requires, not a waiting for economic recovwaiting for economic recovery," he says. "I don't think where, but rather a combina-there will be a strong tion of changes to property upturn." He adds that he law, taxes, housing and planloses nothing by developing his strategy in the absence of any salvation which would be bought by a surge in consumer spending.

Within France, he is nevertheless placing emphasis on increasing productivity, as well as improving stock lights the important and fast growing scope for consumer credit cards in PPR stores, which provide a wealth of information on customer habits which can be used for

They are also extremely profitable, accounting for a substantial part of the FFr293m first-half profits from its involvement in non-operating businesses such as

in France this month which Finaref, which deals with report directly to the holding credit purchases for customore of Recoute

Regarding the govern-"You can't go on making ment's clampdown on new shops, Mr Weinberg says the way the country's suburbs have been defaced by comlast few years is "disgraceful", but argues the real debate now is how to preserve the activity in town ning law designed to make the centres more attractive.

> Given the difficulties of the domestic market, Mr Weinberg also stresses the need for further international diversification of the group. He says this has been the focus of all group expansion, including the acquisition of full ownership of the Fnac store in Belgium and Barcelona, as well as Scoa, the pharmaceutical products distributor, in Africa and trical equipment retailer, in

By 2000, his objective is to outside France, compared with only 28 per cent today.

Wedel looks to salty snacks for future growth

Wedel, the listed Polish chocolate and salty snacks producer controlled by PepsiCo of the US, is strugrivals to maintain market

The challengs from Nestle of Switzerland, Mars of the US and Cadbury Schweppes of the UK in one of Europe's most flercely contested confectionery markets is forcing the company to look to salty spacks production for future profits growth.

Net profits this year are set to grow by just 4 per with sales ahead by 43 per

Third-quarter figures issued this week are in line with the company's year-end predictions which will give Wedel an earnings per share figure of 4.75 glotys. That would be 17 per cent down on last year's figure.

drops of fax

Wedel's net sales rose 45 per cent to 451.8m zlotys as net profits increased 18 per cent to 19.9m zlotys.

However, the company predicted a stronger performance next year When net profits were expected to grow by 68 per cent to 45m zlotys.

This has helped lift Wedel's stock on the Warsaw Stock Exchange. Since January this year

the share price has risen from a low of 83 zlotys to its current 140 zlotys level, giving Wedel a price:earnings ratio of 28.

growth in Warsaw's WIG index over the same period. Currently Wedel holds about a fifth of the Polish to-food group.

to a third of the sweet biswith wrapped sweets. account for 77 per cent of

after PepeiCo acquired a controlling interest in Wedel five years ago, generated 15 per cent of sales revenue in

determined to boost profits by increasing snack sales next year and developing its macks output in the face of

PepsiCo, which holds a 70 per cent share in Wedel whose market value is 813m zlotys - has said it plans to invest \$152m in the company by 2001.

In that year sales are expected to be double the planned 868m zlotys net sales fleure for 1997.

With Poland's market for chocolates expected to grow by 5 per cent a year, such sales growth will have to come from a rapid development of snack revenues. It is here that the greatest share of investments in the next four years will go.

PepsiCo has already invested more than \$56m in building a smacks plant and a distribution network at Wedel since 1991.

The US group currently controls about 20 per cent of Poland's salty snacks market where its main competitors are Bahlsen from Germany. Star Foods, a local Greek This 70 per cent rise owned producer, and Chio matches the 74 per cent chips, a joint venture between Convent, another German snack food pro-ducer, and ITI, a local media-

group sales. PepsiCo of the US, is strug-gling with international brought into production

Now the company appears

the threat to its once unmatched position as Poland's premier chocolate

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The Annual General Meeting of Shareholders is to be held at the regis

of the Company on Friday 15th November 1996 at 11.30am (or as soon thereaf as it may be beld) for the following purposes: To receive and adopt the Director's Report and the Report of the Ambitons for

the year ended 31st July 1996.

To receive and adopt the Sta Operations for the year ended 31st July 1996.

To grant a discharge to the Auditors in responded 31st July 1996.

Directors of the Company.

5. To re-appoint Price Waterb

Shareholders are advised that, in accordance with the Articles of Incorpothe Annual General Meeting of Shareholders will require a quorum of 10% of the

the order to vote at the meeting, the holders of Beaver shares must deposit their shares nor later than Wednesday 13th November 1996, either at the registered office of the Company of with any bank or financial institution acceptable to the Company, and the relative Deposit Receipts (which may be obtained from the registered office of the Company) must be forwarded to the registered office of the Company to arrive not later than Thursday 14th November 1996. The shares sited will remain blocked until the day following the meeting or my

The holders of registered shares need not deposit their certif present in person or represented by a duty appointed proxy. Shareholders who cannot attend the meeting in person are invited to send a daily

completed and signed proxy form to the register Thursday 14th Nevember 1996. Proxy forms will be sent to registered Sha

and can be obtained from the registered office of the Compi

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The L'ORÉAL Group's consolidated sales for the first nine months of 1996 rose to FF 44.58 billion. Growth compared with the same period in 1995 was 12.1 % on published figures and 7.8 % on a comparable basis, excluding the impact of movements in group structure and exchange rates.

The Group's interim consolidated sales showed an increase of 11.7 % on published figures and 7.7 % on a comparable basis.

The difference between published figures and the increase on a comparable basis is primarily a result of the consolidation of Maybelline, Jade and Interbeauty (Israel) for the first time in

Operating profit for the six months ended 30 June 1996 increased by 14.9 % to FF 3.435 billion.

After interest expenses resulting from the acquisitions made by the group, 1996 interim profit on ordinary activities before taxation, employee profit sharing and capital gains and losses

Sales for the full year 1996 should enjoy growth close to the increase recorded for the first nine months of the year. Growth in profit on ordinary activities before taxation, employee profit sharing and capital gains and losses should equal the rise in sales after allowing for the increase in the Group's interest

1996 net profit before capital gains and losses after minority interests should advance more strongly than in 1995, despite the increase in taxation and the portion pald to minority interests.

L'ORÊAL - 41, rue Martre - 92117 CLICHY FRANCE -Phone : + 33 1 47 56 70 00 - Fax : + 33 1 47 56 80 02

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RESULTS OF ELECTION TO RECEIVE A FINAL DIVIDEND INSTEAD OF THE CAPITALISATION AWARD AND AN ELECTION TO SUBSCRIBE FOR NEW SHARES

The right of election to receive a final dividend instead of an award of capitalisation shares ("the Capitalisation Award") and the right of election by those shareholders electing the dividend to apply the dividend in subscribing for new JCI shares ("the Subscription") made to ordinary shareholders registered at the close of business on Friday. 27 September 1996 ("the Record Date"), closed at 16h00 on Friday, I November 1996. The weighted average traded price of JCI ordinary shares on the Johannesburg Stock Exchange on Thursday, 31 October 1996 was R48.31837. Accordingly, the Capitalisation Award and the Subscription for new shares was determined as a ratio of 1.158979 new shares for each 100 shares held on the Record Date.

Elections to receive the final dividend of 53 cents per share in respect of the year ended 30 June 1996 instead of the Capitalisation Award were received in respect of 100,647,221 shares. Accordingly, a final dividend of 53 cents per share was declared on 5 November 1996 on 100,647,221 ordinary shares in respect of the year ended 30 June 1996. Elections to apply this dividend in subscribing for new shares in JCI were received in respect of 61,633,539 of these shares. An amount of R32,665,775 was therefore applied in terms of the Subscription. Accordingly, 1,298.215 new fully paid JCI ordinary shares of 0.000671579 cents each have been allotted in terms of the Capitalisation Award and the Subscription and the issued share capital of JCI has been increased to 152,371,986 ordinary shares.

The listing of 1.298,215 new ordinary shares in JCI will commence on the Johannesburg Stock Exchange from the commencement of business on Wednesday, 6 November 1996.

Cheques in respect of the final dividend and shares sold for the benefit of shareholders, as well as share certificates, will be posted to shareholders on or about Wednesday, 6 November 1996.

Johannesburg 6 November 1996

COMPANIES AND FINANCE: THE AMERICAS

Tenneco unveils \$3bn acquisition plan

By Tim Burt

Tenneco, the US conglomerate. yesterday unveiled plans for a \$2.5bn-\$3bn acquisition spree to double the size of its packaging and motor components interests.

in the process of demerging its shipbuilding and energy divisions - said it was in talks with a number of target companies, particularly in the European plastic packaging industry. Mr Dana Mead, chairman,

said the group could fund acquisitions of up to \$2bn using existing reserves and borrowing facilities, and would issue paper for fur-

international packaging and cartons business as the most likely area for bolt-ons.

We want to lift the sales in international packaging from about \$300m to \$800m; we will do so almost exclu-The company - currently sively by acquisition and now is the time," he added.

Some industry analysts identified the packaging arm of BTR, of the UK, as a potential target, while others suggested Tenneco could be interested in underperforming companies such as Rexam of the UK or Arjo Wiggins Appleton, the Fran-

co-British group.

Mr Mead refused to name companies it was talking to, El Paso Energy, and the and warned that a deal

He highlighted Tenneco's might not take place until the spring. Nevertheless, he hinted at a new business leg for Tenneco Automotive, one of the world's largest exhaust and shock absorber manufacturers.

The group - which cast its eye over Lucas Industries earlier this year - was said to be keen to bolster its after-market operations and establish a presence in automotive electronics.

Mr Mead was speaking in London, where Tenneco yesterday launched a series of meetings with institutional investors ahead of the \$4.6bn demerger of its energy division, which is being sold to spin-off its Newport News

The terms of the demer-

ger, expected to involve oneoff charges of up to \$400m. were approved earlier this week by US tax authorities. Of the charges, about \$250m was related to restructuring \$4bn of corporate debt, while the remainder was linked to stock-sharing, pensions and advisory fees.

Although he admitted the exceptional costs would dent stock and spent \$2.4bn on Tenneco's fourth-quarter acquisitions. profits, Mr Mead said: "It's like Wagner's music, not as had as it sounds - particularly given the scale of the transformation we are undertaking."

back once the demerger had been completed.

Senior company officials advised by Lazard Brothers and Morgan Stanley - pre-dicted such a buy-back would avoid excessive shareholder dilution in the event of issuing paper to fund an

acquisition. Since 1994, the company has bought \$770m of its own

Mr Mead said the company intended to use institutional meetings in London and 15 US cities to persuade investors that it was abandoning indertaking." the conglomerate tag, which has dogged the share price would consider rewarding in the past two years.

Bristol-Myers refocuses on drugs research

The US group is redoubling its efforts to develop new products

the world's largest pharma-ceuticals companies, its record of developing new drugs and bringing them to market is relatively sion to recruit a new head of pharmaceutical research last week may be the next best thing to a drug dis-

The appointment of Dr Peter Ringrose to Bristol-Myers is seen as an impor-tant step for the US drugs company, according to analysts, because he has a strong record in developing new products.

As head of Pfizer's UK research facility in Sandwich, Kent, he helped bring to the market some of the big-selling drugs which in the past 10 years have catapulted Pfizer from an also-ran into one of the most successful pharmaceutical companies in the

"There is no question that Pfizer's Sandwich group has been exceptionally produc-tive," said Mr Kenneth Kulju, an analyst at UBS

Bristol-Myers has brought some drugs through its pipe-line, but not the blockbusters produced by some of its rivals; and its best-selling lines recently have been products licensed in from other pharmaceutical or biotechnology companies. hi you look at all their

Hemant Shah, an analyst at HKS, the independent research firm. "They need to develop a more commercially driven research

Bristol-Myers Squibb While Bristol-Myers is enjoying strong growth of spite of being one of licensed products, it is dangerous to depend on products from other companies,

argues Mr Shah. Competition to buy in drugs is fierce, making it an poor. So the company's deci- increasingly expensive option. Moreover, Bristol-Myers is spending more than \$1bn on its research effort this year - a high cost base to cover if few successful new drugs are being pro-

> There are some potentially interesting products down the road for Bristol-Myers but "the pipeline is considaccording to Mr Kulju.

Concern about a lack of new products in the pipeline has been heightened, because Bristol-Myers's biggest-selling pharmaceutical product, Capoten, lost patent protection earlier this veer leaving a potential hole in the company's revenues. In fact, the impact on sales

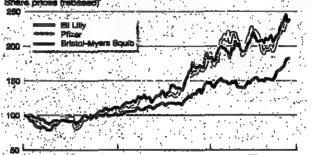
has been less dramatic than some had feared, because its effects were mitigated by increased sales of licensed products, such as Taxol, a cancer drug, sales of which rose 34 per cent in the third quarter of 1996, relative to the previous year.

Still, at a time when the top US pharmaceutical companies are producing earnings growth rates well into double-digits in spite of falling prices. Bristol- drive to cut costs under a Myers managed to increase new chief financial officer, arter-tax earnin major drugs, they have all 9 per cent in the third been licensed-in," says Mr quarter.

But the company has ambitions to improve its performance. In a letter to shareholders earlier this year, incoming chief execu-tive officer Mr Charles Heim-be felt for five years because



Peter Ringrose: has strong record developing new products



approvals for at least 10 new chemical entities - a genuinely new drug - by 2000.

He also said he expected the company to launch new products in its non-pharmaceutical businesses, which include consumer products such as the Clairol haircare range. Furthermore, the company has increased its

The transformation of Bristol·Myers's research effort cannot happen overnight. Analysts say the impact of Dr

bold set a goal of obtaining of the time required to discover and develop new

But if Bristol-Myers fails to improve its new product record, it will find itself in an increasingly uncomfortable position. The concentration of mar-

ket share among the world's largest pharmaceuticals companies in recent years has already forced some of those under pressure to join

Those who have chosen to go it alone, like Pfizer and Eli Lilly, have already shown their strength. For the moment, BMS appears something of an anomaly.

Tracy Corrigan | said.

KPMG revenues rise 8% in year

By Jim Kelly, Accountancy Correspondent

KPMG, one of the Big Six global accountancy groups, in worldwide revenues for the year to September 30, from \$7.5bn the previous year to \$8.1bm.

The growth rate was seen as mildly disappointing.
"We have got to be growing faster," said Mr Jon Madonna, KPMG chairman, "I was hoping to see better but it is acceptable." The firm had invested

Sont Market

"hundreds of millions" of dollars in information technology and developing new products for clients, he said. This included about \$500m year on technology and more than \$100m on products. As a result the firm was looking to improve growth over the next year. Andersen Worldwide, the umbrella organisation for Arthur Audersen and Andersen Consulting, has led the results automored to date far this year, with revenue growth at 16 per cent in

Mr Madonna said he sew further consolidation among the big accountancy firms. but said KPMG would grow mainly from within rather

He said all sides of the business had performed well over the year, but stressed that significant growth in revenues was likely to come from the consulting side of the bosiness rather than the traditional backbone of auditing and tax.

"If you look at where the great opportunity is, it's on ine consultin Madoona zaid.

The investment and strategic moves KPMG had made had ensured it would be in a strong position for the future. "The road we are on is the right road," he

Mergers and acquisitions activity reaches new high

By John Authors In New York

had already reached record

levels for the year before the

proposed merger between

British Telecommunications

and MCI, according to a sur-

cent below its level for the

The previous record for

the first nine months of the

year, set in 1995, was \$173.7bn. It means that

global cross-border mergers and acquisitions activity is

now double its level for the

same period of 1992, when

the total volume of business

However, the total number

of deals dropped signifi-

cantly, from 4,536 to 4,016,

with buyers concentrating

Mr Steve Blum, a corpo-

rate finance partner with

KPMG, said conditions for

cross-border deals had never

been better. "Low worldwide

interest rates and lofty

global stock markets, which

lower financing hurdles, together with bealthy eco-

nomic conditions in most of

the developed world, helped

to fuel deals," he said.

was \$90.1bn.

on large targets.

first six months of 1995.

accountancy firm.

October IPOs top 1993 record International cross-border The number of initial public \$41bn, according to Securi-offerings (IPOs) in a single ties Data. If activity continmergers and acquisitions

offerings (IPOs) in a single month hit a record in Octo-ber, according to the latest numbers released by Securities Dats, Tracy Corrigan A total of 106 companies

vey published yesterday by KPMG Peat Marwick, the issued public equity for the first time last month, break-In the first nine months of ing the previous record of the year, purchasers spent 100 set in November 1993. \$181.7bn on acquisition tar-That figure includes all new gets whose parent compaissues in the US. including nies were based in a differclosed-end funds and real ent country. Activity picked up substantially in the third octate investment trusts. In terms of money raised, quarter, with the total vollast month's \$6.3bp proceeds ume of business by the end of June having been 6 per

fell short of record levels. About a third of companies going public in October were classified as high-tech. So far this year, 700 companies have gone public in the US market, raising

However, KPMG also found that acquirers were with sharp slowdowns in transactions targeting China and India. This was part of a "flight to safety" with com-panies finding less incentive to take the risk of investing in emerging nations in a search for higher returns.

The greatest volume of mergers and acquisitions activity was between the US and the UK. UK companies invested \$11.42bn in US companies during the first nine months, in 134 separate deals. Since then, the US has seen both the BT deal and the agreement by Invesco, a UK fund manager, to pay the region.

ues apace, the IPO market is on track to beat the 1993 record this year.

The Securities Industry Association expects that 1996 will set records for trading in the US market. "Many people thought 1993 was a unique year, and one the industry would have difficulty matching," said Mr Jeffrey Schaefer, SIA senior vice-president for economic research. "This year's strong equity market has made it more conducive for firms to raise equity capital rather than debt to finance expansion," he said. The climate has also been helped by heavy inflows into equity mutual funds.

\$1.6bn to buy AIM, a privately held US money man-This was almost exactly reciprocated by US companies which invested \$11.67bn in the UK, significantly more than last year's \$9.16bn,

There was also a sharp increase in US activity in Latin America. US companies invested \$2.4bn in Venezuela alone (up from \$31m). while the region as a whole attracted investment of \$10.04bn, 59 per cent higher than in the equivalent period of 1995.

This was almost back to the peak of 1994, when 210 deals brought \$11.12bn into FLEMING FLAGSHIP FUND

Société d'Investissement à Capital Variable bean Bank & Business Centre, 6, route de Trêves L-2633 Senningerberg, Grand Duchy of Luxembourg
R.C. Luxembourg No. B 8478

Notice of **Annual General Meeting** NOTICE is hereby given to Shareholders that the Annual General Meeting of FLEMING FLAGSHIP FUND ("the Company") will be held at the registered office of the Company at European Bank & Business Centre, 6, route de Trèves, L-2633 Senningerberg, Grand

Business Centre, 6, route de Trèves, L-2633 Senningerberg, Grand Duchy of Luxembourg, on Wednesday 20 November 1996 at 3:00 p.m. for the purpose of deliberation and voting upon the following

1. Submission of the Report of the Board of Directors and of the

2. Approval of the Annual Report for the financial year ended 30 June 1996;

3. Discharge of the Directors in respect of their duties carried out for the year ended 30 June 1996; 4. Election of the Directors and Auditor;

Declaration of dividends for the financial year ended 30 June 1996; Resolutions on the agenda of the Annual General Meeting will require no quorum and will be taken at the majority of the

reholders present or represented. A Shareholder emitted to attend and vote at the meeting may appoint a proxy to attend and vote on his behalf and such proxy need not be a Shareholder of the Fund.

In order to be entitled to attend the meeting, holders of bearer shares must deposit their bearer share certificates seven working days prior to the meeting with the following insutution: Kredicthank S.A. Luxembourgeoise, 43, houlevard Royal, L-2955 Luxembourg

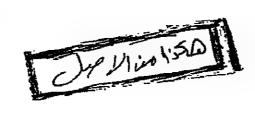
Robert Fleming (Switzerland) AG. Röschibachstrasse 28, GH-8037 Zarich Banca Commerciale Italiana SpA. Corso di Porta Nuova 7, I-20121 Milano

A., boulevard Anspach 1 - bte 39. B-1000 Bruxelles Creditanstalt-Bankverein Aktiengesellschaft, Schottengasse 6, A-1010 Wien

BHF-Bank Aktiengesellschaft, Buckenheimer Landstraße 10, O-50323 Frankfurt/Main Banca Exterior de España Argentaria, Carrera de S. Jerónimo 36, E-28014 Madrid

Shareholders who cannot personally attend the meeting are request ed to use the prescribed form of proxy (available at the registered office of the Company) and return it at least 7 working days prior to the date of the Annual General Meeting to the Company, c/o Fleming Fund Management (Luxembourg) S.A., L-2888 Luxembourg. By Order of The Board of Directors HENRY C RELLY, October 1996

FLEMINGS





COMPANIES AND FINANCE: ASIA-PACIFIC

t was inevitable that the

battle between Nor-

mandy and Newcrest,

two of Australia's biggest

gold mining groups, would

be described as a clash of

Lined up against each

ther were Mr John Quinn,

Newcrest chief executive,

and Mr Robert Champion de

founder and chairman

nining executives.

both accountants turned

words in 1991, when Nor-

mandy attempted to gain

control of Newmont Austra-

merged with BHP's gold

One newspaper went so far

as to illustrate its story with

a drawing of Mr Quinn hold-

ing a pistol to the head of Mr

de Crespigny. This was the wrong image. With hind-sight, it would have been

more appropriate to have

shown Mr Quinn shooting

We didn't achieve our

objectives and the invest-

what we were trying to

Newcrest wanted a merse

with Normandy to create an

Australian company ready

himself in the foot.

two had crossed

personalities.

NatWest to buy out Newcrest puts rejection behind it Wheelock venture

By Louise Lucas in Hong Kong

National Westminster Bank of the UK is to buy out Wheelock, the Hong Kong conglomerate, from its Hong Kong investment banking joint venture after just two years in partnership.

NatWest said it aimed to step up Wheelock NatWest's activities in trading equities and equity derivatives, but these more risk-oriented businesses would need more capital and tighter regulation. That could be more easily handled in a wholly owned vehicle, where one entity has full control, the

Mr John Howland-Jackson, Asia Pacific chairman of NatWest Markets, said tightened regulation had made the split inevitable: the bank is regulated by the Bank of England while Wheelock is unregulated.

significant business (in securities and especially derivatives trading), a perception that there could be greater wenture, if you do not own it all yourself," he said.

ble for the joint venture, said of the split "It's not the best option (for us), but it was really the only option. The

only sensible option." But Hong Kong analysts, pointing to Wheelock's hapless record with partners, reckon the split may have been forced by a falling out. NatWest has been building up its other investment

banking activities in Asia, with a recent expansion of its equities business in Tokyo, and admitted that it had "outgrown" the partner ship with Wheelock. Wheelock prides itself on

its role as a "bridge between East and West". The investment banking venture was its most high profile tie-up. Its remaining venture,

with Foster's, the Australian brewery, in China, was initially capitalised at US\$28m. A retailing joint venture with Virgin, the UK aviation There is, as you build a and entertainment group, never got off the ground

One broker said that the Wheelock group is generally held in poor regard in Hong difficulty in controlling all Kong. You only need look those risks if you are a joint at the Hong Kong airport railway projects: no-one is "Mr Nick Sibley, managing affiliate Wharf. All the other director of Wheelock Capital, developers are in consortia - in 1995.

more amicable between

The joint venture had already absorbed an investment of US\$125m from the emolodyrada owt

Neither side would disclose the payment being made by the NatWest group which will appear in Wheelock's accounts as an exceptional item next year. The investment manage

ment side of Wheelock Nat-West, whose purpose came into question after Nat-West's acquisition of the Gartmore fund management group, was shut down last

NatWest Markets, the global corporate and invest-ment banking arm of Nat-West Bank and Wheelock's erstwhile partner in the pan-'Asian loint venture, is expec ted to complete the acquisition of Wheelock's 50 per cent stake by the end of the month pending approval from the two partners'

Wheelock NatWest, which formally opened its doors in the second half of last year, expects to become profitable next year. It was indepen-

to take on the biggest competitors in the world. Newcrest's timing, however, was far from perfect. Mr de Crespigny was already putting together a merger of his own, drawing his complex mining interests

achieve."

Glittering future Crespigny, Normandy

Spurned by Normandy, the gold miner is looking to exploit its exploration skills

Mr Quinn says ruefully: the Normandy banner. Newcrest stepped in at the ment community was not wildly enthusiastic about deal in the hope that it could oush forward its own merger

> It was able to halt the Normandy group merger because it had acquired a 14.9 per cent stake in Normandy and 10.5 per cent of Mr de Crespigny's Poseidon Gold (PosGold), mostly from Minorco, an offshoot of the Anglo American-De Beers

group of South Africa. For Newcrest, the idea of a

Normandy nor many Australian investors liked the idea, "The investment community did not like us replacing the certainty of the Normandy merger with the uncertainty of the one we

proposed," Mr Quinn says. Normandy didn't want the transaction and made it quite clear they didn't want Ultimately, Newcrest

could not persuade Normandy or the important shareholders in both companies, and was forced to with-

Mr de Crespigny completed his merger at the second attempt and Newcrest more than A\$100m at present values - on the A\$470m (US\$370m) it paid for its Normandy and PosGold stakes.

"Now," says Mr Quinn, "we have to do a job of conveying to the investment community that Normandy was not the whole story. We need to refocus investors on

what our future will be." The present jewel in Newcrest's crown is the Telfer gold mine, in Western Australia. Telfer produced

the year to end-June, and this is scheduled to rise to nearly 600,000 ounces in the next three years. Mr Quinn is also excited

365,000 troy ounces of gold in

by Newcrest's two development projects: Cadia Hill in New South Wales, and Gosowong, in Indonesia.

Cadia, due to start up by August 1998, has a resource so far of 7.2m ounces of gold and 556,000 tonnes of copper. Annual output of 293,000 ounces of gold and 24,000 tonnes of copper is expected.

osowong is much smaller, but is important as Newcrest's first project outside Australia. For capital expenditure of about A\$70m, Newcrest sees Gosowong producing 150,000 ounces of gold a year, possibly from the mid-

Newcrest will be producing about 1.2m ounces of gold by 2000, says Mr Quinn. Last financial year its output was 582,000 ounces, down from 649,000 in the previous 12 months,

In future, says Mr Quinn, Newcrest will rely principally on exploration skills, rather than acquisitions, to generate growth. "Certainly some international investors prefer large, liquid gold stocks. But there are other criteria, such as growth in production. And we offer that by going from 600,000 ounces a year to 1.2m ounces in two years' time."

Kenneth Gooding

Sony Music tumbles 53%

By Gwen Robinson in Tokyo

5. 7

---or the proof

10 X 15

1,000,000

17.19

11.00

. 90

Samuel Meels

Sony Music Entertainment, profit plunged 53.1 per cent to Y4.7bn (\$41m).

It blamed incressed costs of advertising and marketing and; the delayed release of new compact disc titles durme a management reshuffle. Sales in the first half to September fell 12.1 per cent

demand for Sony Music's domestic and foreign CD and cassette tape titles, although the recorded music arm of sales of games and image Sony, yesterday announced software were strong. Net that first-half recurring profit declined 45.4 per cent to Y3.2bn.

The company will pay a Y17.5 interim dividend. unchanged from a year earher, said Mr Kazutoshi Shiraishi, senior managing

director. For the year to March, Sony Music expécts a recurto Y46.6bn, with sluggish ring profit of Y12.6bn, down raishi said.

39.9 per cent. Sales are likely to fall 9 per cent to Y104,2bn amid a downturn in demand for CDs and cassette tapes.

The company's total num ber of new titles for the full year should come to just over 1.000, down about 200 from the previous year. Net profit for the full year

is expected to decline 36.4 per cent to Y7.3bn. However, the company plans to pay an annual dividend of Y35 a share, Mr Shi-



Gencor Limited

("Gencor")

Winkelbaak Mines Limited

Limited

Kinzoes Milnes Limited

Results of meetings

UAL Merchant Bank Limited and Rand Merchant Bank Limited are authorised to atmounce the results of the general meetings of Kinross, Winkelbaak, Leslie and Bracken ("the four mining companies") and the scheme meetings of Winkelbaak, Leslie and Bracken held on

The special and ordinary resolutions relating to the merger of the four mining companies were approved by the requisite majority of shareholders.

The schemes of arrangement in terms of section 311 of the Companies Act (Act No. 61 of 1973), as amended, were agreed to by the requisite majority of scheme members.

The ordinary resolution relating to the cancellation of the Kinness consulting services agreement was not approved by the requisite majority of shareholders at the general meetings of Winkelhaak and Leslie. As a result, the cancellation will not be implemented. However, its was amounced at the meetings that the consideration for the cancellation of the Kimross consulting services agreement would be reviewed by a sub-con board of directors of Evander Gold Mines Limited comprising three independent directors. This review will not affect the implementation of the merger and should be completed by the end of March 1997.

The implementation of the mergar is now subject to:

the Supreme Court of South Africa (Witwatersrand Local Division) sanctioning the schemes of arrangement on Tuesday, 12 November 1996; and

the fulfilment of the remaining conditions precedent

An announcement advising shareholders on the outcome of the court application will be published on or about Wednesday, 13 November 1996.

Johannesburg 6 November 1996

Merchant bankers and adviser to Kimross

Merchant bank and actviser to Winkelhaak.

RMB RESOURCES

DENEYS REITZ

FLEMING MARTIN

BOE NATWEST

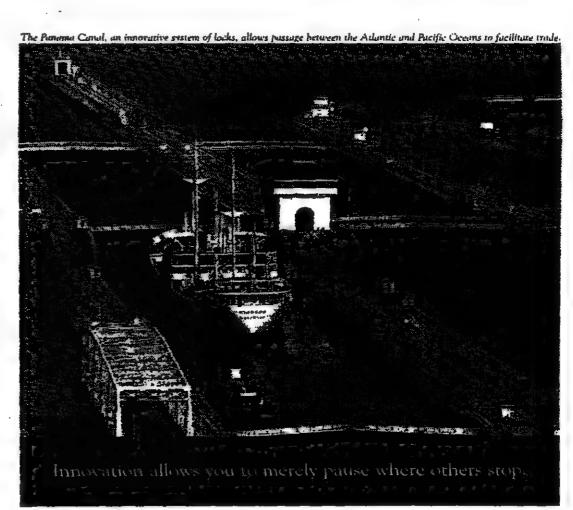
(In the Republic of South Africa)

LEMINGS dag & Ca. L

(In the United Kingdom)

Merrill Lynch

EDWARD NATHAN A RIEDLAND INC



GLOBAL BOND ISSUES Philippine Long Distance Telephone Company \$500,000,000 1994 Serikir Nuces due 2004 1995 Senior Notes due 2002 1995 Senior Notes due 2005

& Bankers Trust

In a culture that prizes innovation, the biggest challenges become the greatest opportunities. Philippine Long Distance Telephone Company's desire to bring state-of-the-art technological innovations to its service area was met by a seemingly impassable obstacle: the challenge of raising large-scale capital in market conditions that had turned skittish towards all developing nations. Together, we designed a first-of-its-kind creative solution. Based on substantive knowledge of the industry, local and global insights about the region,

and the resources and credibility of our full-service worldwide network, we structured the first ever Global Bond offering by a Philippine issuer, and the first such registered with the SEC in the U.S. Then we worked collaboratively with PLDT to effectively market this breakthrough offering. Based on this initial achievement, we successfully marketed their two-tranche bond the following year. The ingenuity displayed by both partners throughout this relationship so impressed the financial community that we were awarded "Deal of the Year" by two publications: Corporate Finance, for two years running, and Asiamoney. We welcome the opportunity to discuss how we can develop equally innovative solutions to your financial challenges.

COMPANIES AND FINANCE: ASIA-PACIFIC

Move to new technology hurts Nintendo

By Michiyo Nakamoto in Tokyo

Nintendo, the Japanese maker of video games, yesterday unveiled a 53 per cent drop in parent recurring profits in the first half, as users shunned the last generation of Super Nintendo games machines and sales of software plummetted.

The company said that the drop

in its 16-bit Super Nintendo sales was in line with expectations, amid the transition to next-generation technology, which has been brought to the market in the form of Nintendo 64, an advanced 64-bit

setback

Energy

at Japan

By Gwen Robinson In Tokyo

profits to Y944m (\$8.3m) for

the half-year to September. The company said the fall

was due to increased price

competition following

sweeping deregulation of Japan's petroleum industry.

Although overall sales

rose by 9.5 per cent to Y691.42bn, rising crude oil prices and a deterioration in

the profitability of the

petrochemicals division

wiped out some Y12bn in profit. The rise in crude oil

prices is expected to reduce

recurring profit by a further

Y3bn in the second half, the

Cost-cutting measures

worth some Y10bn and for-

eign exchange gains of Y1.4bn failed to offset the first-half fall in recurring

profits. However, a surplus

of securities holdings helped

net profits soar by 61.5 per

cent to Y1.62bn, with earnings per share rising to

Y1.49 from Y0.92 a year

For the full business year,

Japan Energy expects recur-

ring profit of Y6bn, down

Y2bn from a revised esti-

because of the delay

between increases in crude

oil prices and the time they

are reflected in product

prices, said the company.

come in higher than the pre-

sion, which has suffered

increases in other raw mate-

riais prices, will just break

even for the full year after

However, the company

said it intended to make up

the shortfall through

restructuring measures worth some Y12bn annually,

Sales for the full year are

forecast at Y1,500bn, up

from last year's Y1,353bn,

on an in-house dollar

exchange rate of Y110 and

on estimates that crude oil

expects to make an annual

stock market yesterday,

SUB-

lu trading on Tokyo's

payout of Y5 a share.

the officials said.

The petrochemical divi-

vious year's Y5.8bn.

1995-90.

barrei.

some Y4bn from the sale

company said.

Recurring profits dropped more than half, from Y63.9bn to Y30bn (\$263.6m), while sales for the first balf fell slightly, from Y135.2bn a year ago to Y130.2bn.

Nintendo kept its full-year forecast more or less unchanged, at recurring profits of Y85bn and net profits of Y48bn. Sales, however, are now expected to be slightly higher than initially forecast, at Y340bn, because of an increase in production of the Nintendo 64. Nintendo said that the Super Nintendo machines - known as

Super Famicon in Japan - and software had suffered from the transi-

tion to the advanced format. Sales has been extremely strong in the of software for the 16-bit machines US, where the company sold plunged from 13.99m units in the 400,000 machines in the first week first half last year to 5.2m.

The company had not been able to overcome the drop in Super Nintendo sales with higher sales of the Nintendo 64. Although the new machine has been popular - Nintendo sold 1.16m units in Japan and 800,000 units in the US - there have been few software titles to support greater shipments.

Nevertheless, Nintendo expects to ship a total of 6m of the 64-bit games machines in the full year and 12.3m software units. Demand

of its launch.

The company is also likely to be supported by currency gains amid the yen's weakness against the US dollar, said Mr Hironobu Sawake, industry analyst at Nikko Research Center in Tokyo.

The number of software titles available for the Nintendo 64 is to rise to 10 in Japan by the end of the year and eight in the US. Nintendo is also looking to strong sales in Europe when the machines are launched there on March 1.

doubt, and when that happens they will be able to achieve firm profits," Mr Sawake said.

Mario Cart, a popular game that is available in the earlier format, is expected to be one of the upcoming titles that will support strong

demand, he notes. Nevertheless, Nintendo still face strong competition from Sony in particular. Among the competing advanced-generation video games machines, Sony's 32-bit PlayStation is proving to be the strongest seller yet in the Japanese market, accord-

argues, will remain a

dynamic regional centre so long as it achieves a reason-

able autonomy on day-to-day

affairs and, crucially, its

executive is selected on

merit. Then, he believes,

Hong Kong business is per-

fectly poised to capitalise on the mainland market.

As big a question, at least

concerning his own strategy.

is whether Richard will return to Hutchison Wham-

poa, the conglomerate con-

trolled by his father. Family

succession is an established

trend in Hong Kong, as in much of Asia, with business

dynasties looming large over

the economy.

Given the size of Hutchi-

son and its parent company,

Cheung Kong, the aspira-tions of Richard and his

elder brother Victor is the stuff of frequent speculation

shows no sign of flagging. Richard Li is not a fan of

family succession. Person-

ally, he says, he does not

think it is a good idea. "But

that doesn't mean it is doomed to failure. Look at

the Wallenbergs", he says. Business relations within his

although their father

Star Mining and JCI in finance deal

finance and expertise.

so km. about the size of

about 2m ounces. However, the capital cost of the first subject to various approvals phase alone is likely to be on both sides, I see it as an about \$600m.

the Sukhoi Log and other government, Star was also projects to development." **HK Telecom**

obliged to contribute \$200m over the next 18 months, to

arrange for appropriate debt

funding and guarantees

the first phase.

essential for completion of

If the JCI deal is sealed, all

Star's share of Sukhoi Log

could be reduced from 34.88

per cent to 4.88 per cent as a

result of the arrangement

but Mr Rudolph Agnew, Star chairman, said yesterday that negotiations were tak-

ing place with "various Rus-

sian parties" to increase sub-

stantially Star's interests in

Sukhoi Log and a number of

The Russian state, with 38

Not the least of Star's diffi-

culties has been the fact that

Russia's Federal Security

Service, successor to the KGB, refused the company access to critical data because gold reserves have

always been a state secret.

Mr Victor Chernomyrdin,

Russian prime minister,

signed a decree removing

the secrecy restrictions in

Mr Agnew said this made

negotiations with JCI much

easier. He said: "Although

our agreement with JCI is

on both sides, I see it as an

important step forward in

our determination to bring

September.

per cent, and 9,600 employ-

ees, with 17 per cent, are the

other main shareholders.

the satellite deposits.

these conditions will be met

and Star would get back the

\$50m it has spent so far.

By Kenneth Gooding, lining Correspondent

Star Mining, a small Australian listed company that has been struggling to develop Sukhoi Log in Siberia, Russia's biggest known gold deposit, hopes to enlist JCI, the South African mining group, to provide

The companies have signed a Memorandum of Understanding which will provide the basis for JCI to buy up to 30 per cent of Sukhoi Log for US\$250m and

to manage the project.
The deal is in line with JCI's policy of finding opportunities to generate production outside South Africa. Mr Bill Nairn, chief executive, said Sukhoi Log could "be one of the world's leading gold producers into the

next century". Sukhoi Log has reserves and resources of 31m troy ounces of gold and four "satellite" deposits are estimated to contain 4.2m ounces. Star also has mining rights to an area of 105,000

England, in Russia's Irkutsk At present Star envisages Sukhol producing about 600,000 ounces a year in an initial phase, and eventually

Under the terms of its agreement with the Russian

advances 12% in first six months

By John Ridding in Hong Kong

Telecom Hongkong yesterday announced a. 12 per cent rise in net profits to HK\$5.39bn (US\$697m) for the six mouths to the end of September and called for greater freedom in setting

rates and prices. Mr Linus Cheung, chief executive, described the double-digit increase in the first half as "no mean feat" given the increased competition in Hong Kong's liberalised domestic market and the assault on its international direct-dial monopoly as well as Internet-related

New rivals, including the telecoms arms of Hutchison and New World, have undercut Hongkong Telecom's prices and eroded its market share. Mr Chenng said the company, one of the territory's largest companies and a subsidiary of Cable & Wireless of the UK, had lost 15 per cent of its international market share in the first half, compared with the

same period in 1995. Regulatory issues are important to the company's prospects at present, since its lucrative international direct-dial monopoly is currently under review. Mr Cheung said yesterday, however, that the company was under no pressure to reach

an agreement on an early

termination of the franchise,

which is due to last until

The Hong Kong Telecom chief said that while dislogue on the issue would be intensifying, there would only be an accord if it was beneficial to shareholders.

Increased competition underpinned the group's strategy of reducing dependence on international direct-dial services, Mr Cheung said. "Three years ago IDD formed some 63 per cent of overall revenues. It now represents about 55 per fax and voicemail products, for a 37 per cent rise in revenue from other telephone activities.

Total revenues during the period climbed 9.3 per cent to EE\$15.92bm. The increase included a rise of 4.8 per cent in international services, which in turn reflected traffic growth of 11 per cent. Growth in traffic to China increased just 5 per

Overall operating margins increased one percentage point to 38 per cent, while Mr Cheung cited steady progress in the company's three-year plan to reduce the headcount by 2.500.

increased from 30.9 cents to 84.6 cents. Earnings per share rose from 48.2 cents to

First-half | Li lays foundations for second fortune

After the sale of Star TV, Pacific Century is turning towards financial services

ichard Li has been sector. The group's Top biding his time, probiding his time, plotpreparing to pounce. The Hong Kong chairman of Pacific Century is steadily laying the foundations of a Japan Energy, a leading mining development and second fortune with the booty from his first - the sale of Star TV, the Asian petroleum refining group, satellite broadcaster, to Mr announced a 23.5 per cent decline in interim recurring Rupert Murdoch's News

It is a hard act to follow. Having built Star since its foundation in 1990, he sold it for just under US\$1bn, with the final tranche disposed of last year. It was a big deal for any businessman. But Mr Li was just 23 when Star was born. The question is, can he

do it again? Now aged 29, Mr Li appears to be taking a more measured approach. "More risk averse" is how he describes his strategy at Pacific Century, which he formed in 1993.

Gone are the glitzy businesses of television and telecoms. Instead he is building his new ambitions on property, financial services and insurance

There is a change, too, in his style - once criticised as high-handed. "In the past yes, I was abrasive", he says. But that was necessary in TV." In his new businesses. delegation is the preferred

But a lower profile of late points to preparation, not inaction. "He is a chip off the old block", says one mate made in August, associate, referring to Mr Li Ka-shing, Richard's father, who has risen from manufacturing plastic flowers to dominate much of the territory's business. "Dealmaking is in his genes", The result, however, would adds one local banker. And if the sectors in which he is now focused might appear staid after TV, they offer

from falling demand and plenty of potential. "The prospects in China are staggering", says Mr Li, referring to the insurance

Glory insurance subsidiary has set up representative offices in Beijing and Shanghai as a step towards a

More significant, the group has secured an alliance with China Insurance, through the sale of a 20 per cent stake in Top Glory's holding company to the

While Pacific Century's insurance ambitions in China are progressing, Top Glory has cemented its position in Hong Kong. "We are now the third largest in terms of premium sales", Mr Li says, citing incentives such as the sale of a 25 per cent stake in the insurance arm to management. "We are forcing them to upgrade the computer system. But they want a quicker break-even. I love that kind of fight".

In property and intrastructure, Pacific Century has invested across Asia, from India to Singapore and southern China. But in spite of his war-chest, and the fact that 90 per cent of the company remains in cash, Mr Li is wary.

"We bid for one of the subway projects, about US\$2.5bn", he says. "We lost and I don't regret it".

Mr Li's approach is based on number-crunching rather than the gut feel employed by many of the territory's property tycoons. And he thinks some of the numbers do not add up. "There are still people

chasing after values which I think are not justified in terms of fundamentals. I have a strong aversion to the rat race." Such a strategy means that most of Pacific Century's earnings still come from

interest income. But that

will change. "In five years

the main source will be an

operating business that

The Pacific Century chief is guarded about where these new legs might be, but says he is actively searching with the help of Gordon Capital, the Toronto-based investment bank where he worked until returning to

am going to add one or two

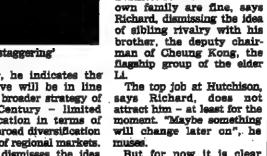
Hong Kong in 1990, and which he bought last year. Television still holds some appeal, but Mr Li argues the market is now much more competitive than when Star pioneered regional satellite television. "We had it easy", either we have started or he says.

Richard Ll: 'The prospects in China are staggering' next move will be in line with his broader strategy of Pacific Century - limited diversification in terms of sectors, broad diversification in terms of regional markets.

Mr Li dismisses the idea that Pacific Century's geographical spread, and the choice of Singapore for its sole listing, reflect concerns about Hong Kong's prospects after its return to Chinese sovereignty in July next year. "I don't believe China is so dogmatic that it will kill the golden goose," he

His home territory, he

share and leave the full-year



But for now it is clear

where his priorities lie. Although he is deputy chairman of Hutchison, it is his own business that takes his energies. "I spend 90 per cent of my time at Pacific Century...I have an obliga-tion to build it up." The deals on the drawing board

John Ridding

Government price cutting hits Shionogi

By Gwen Robinson

Shionogi, one of the leading Japanese manufacturers of pharmaceuticals, reported a decline in interim earnings due partly to government moves to cut prices of drugs prices will average \$21 a available under the national health insurance (NHI) Net profit is expected to scheme, and partly to declines in over-the-counter total Y6.1bu, or Y5.48 a share. The company will not retail prices for the compapay an interim dividend, but

ny's products. In response to the bleak outlook for the pharmaceuticals industry in Japan, Mr Yoshihiko Shlono, the Japan Energy fell Y2 to company's president, yesterday announced a restructur-

HE MONUMENT

Electronics /electricity

· Research, engineering, quality

FOR INDUSTRIAL

CONTRACTING

sector, the exhibition will be divided into six main areas :

Industrial fasteners

Metal processing

ing plan that will involve Boston in the US in January interim dividend of Y3.75 a to its business partner, cutting approximately 1,700 1997. interim dividend of Y3.75 a to its business partner, share and leave the full-year Eli Lilly, of the US. staff, from the current total of around 6,700, by 2000. To help reduce personnel,

Shionogi will promote its early retirement programme and suspend the annual recruitment of university graduates for 1997 and 1998. Mr Shiono said. Shionogi's research and

development operations will also be reorganised, said the president. Part of the R&D unit which is currently centred at the company's headquarters in Osaka will be transferred to a new subsidlary, to be established in but the company will pay an

Shionogi's unconsolidated

ecurring profit for the first half to September dropped 6.7 per cent from a year ear-lier to Y10.28bn (\$90m). Mr Shiono said that while sales rose 2.7 per cent to Y113.8bn, the rising cost-

to-sales ratio had affected earnings. The company has also increased its R&D outlays. with the stress on basic research in cancer and biochemical fields.

to Y4.8bn, or Y13.93 a share,

2 - 6 DECEMBER

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payout unchanged at Y7.5. For the full year to next March, Shionogi expects a fall in both recurring profit and sales for the second consecutive year. Full-year sales of mainstay antibiotics are expected to

rise only marginally and will be further affected by another bout of drug price reductions under the govern-Net profit fell 18.3 per cent

ment-sponsored NHI scheme. The expected overall sales decline includes a fall of Y2.6bn on the planned transfer of marketing of the diabetic treatment Humulin

Eli Lilly, of the US. The cost-to-sales ratio is also likely to rise to 49.1 per cent for the full year, up from last year's 48 per

Full-year recurring profit is estimated at Y20bn, down 9.7 per cent from the previous year, on sales of Y225bn, down 0.3 per cent. Net profit is expected to fall 11 per cent to Y10bn.

The poor first-half performance failed to drag down Shionogi in trading on the Tokyo stock market, where the shares added Y11 to close at Y888 yesterday.

ABTRUST ATLAS FUND Registered Office: 4. Boulevard Royal, L-2449 La R.C. Luxembourg B 27,229

DIVIDEND NOTICE By resolution of directors on 34 October 1996 it was agreed to pay

US\$ 0.05374 per share on the Dollar Portfolio; GB£ 0.03859 per share on the Sterling Portfolio; GB£ 0.02285 per share on the UK Growth of Income USS 0.00734 per share on the United States Portfolio;

date on 31 October 1996 and a payment date on 7 November 1996. Paying Agent:
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rs on record on 30 October 1996 with an ex-dividen

FUJITA CORPORATION USA US \$ 25,000,000 **GUARANTEED FLOATING RATE NOTES DUE 1998**

In accordance with the provisions of the above mentioned Notes, notice is hereby given as follows: Interest period: November 4, 1996 to May 6, 1997 (183 days)

Interest payment date: May 6, 1997

Interest rate: 5.84141% per annum Coupon amount payable per Bond of US \$ 100,000: US \$ 2,969.38

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Dun & E

NOTICE TO THE HOLDERS OF

City of Oslo USD 125,000,000 9.25% Bonds due 1998

Pursuant to Anicle 9 of the Fiscal and Paving Agency Agreement, notice is hereby given to the Holders of the outstanding Bonds that, on and with effect from December 27, 1996, S.G. Warburg & Co. Ltd, London will resign as Paying Agent under the Bonds and shall be released from all its obligations

and liabilities ansing from the Fiscal and Paying Agency Agreement

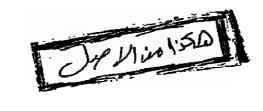


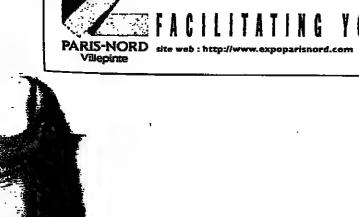
Electricité de France USD 200,000,000 9% Guaranteed Bonds due 1998

Pursuam to Article 8 of the Fiscal Agency Agreement, notice is hereby given to the Holders of the outstanding Bonds that, on and with effect from December 27, 1996, S.G. Warburg & Co. Ltd, London will resign as Paying Agent under the Bonds and shall be

NOTICE TO THE HOLDERS OF

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Recently, we pulled a D&B report on ourselves.



It did wonders for improving our vision.

Companies worldwide use Dun & Bradstreet to clarify the potential of key business alliances. So, we decided to use our own strengths to see ourselves as we really are.

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Rise in UniChem's shares lifts value of its bid

Gehe bids £651m for Lloyds

By Christopher Price

The battle for Lloyds Chemists intensified yesterday as Gehe of Germany returned to the fray, bidding £650.6m (\$1.06bn) in cash for the pharmacy chain.

The terms were similar to the German group's earlier bid, which, like a rival one from the UK's UniChem, was referred to the competition authorities in March. Both companies were given approval by the government to proceed with their bids just over two weeks ago. The value of the new 500p-

a-share offer failed to top

British Petroleum yesterday

reported third-quarter earn-

ings in line with market expectations, as the com-pany benefited from recent oil price rises, higher pro-

duction and cost-cutting.

Net profits for the quarter

were up 9 per cent to £650m on a replacement cost basis

and before exceptional

items. Net profits for the

first nine months of the year

By Robert Corzine

offer was last night worth 500.6p a share, or £651.3m. The small gap between the rival offers raised speculation that both suitors will offer more, a prospect neither would rule out

Gehe had been expected to deliver a higher "knockout" offer for Lloyds. Disappointment in the market left Lloyds' shares off 4.5p at 511p. UniChem shares rose 3.5p to 255p. Mr Dieter Kämmerer,

chairman of Gehe, said it be too confident of the pros-had made a "very fair" offer. pects." Referring to Lloyds' recent

per cent rise from last year.

executive, said much of the

rise was the result of

"self-help" which BP defines

as higher volumes and costcutting. Higher oil prices

and volumes caused year-on-

year earnings in the

upstream oil and gas divi-sion to surge by 33 per cent

to £761m. But executives

sald much of that gain was

Mr John Browne, chief

BP advances 9% in quarter

eroded by tighter refining ter to £130m. as volume

that of UniChem. After a rise fall in profits, he said: "Peo-in its share price, UniChem's ple who have talked of a ple who have talked of a Harris, UniChem chief exechigher offer have closed their minds to the events of the last seven months."

He added: "We believe that this comes down to a question of whether Lloyds shareholders want cash or UniChem paper. Their offer is heavily dependent on what they make of the merged business, but given the disappointing perfor-mance of the UniChem share price in the last two years. Lloyds shareholders cannot

Mr Kämmerer's comments

Profits from refining and

marketing fell to £151m,

against £209m the previous

quarter and £211m at this

stage last year. The fall was

in spite of a recovery in margins in the UK, where

pressures from a retail pet-

rol price war eased some-

what in the quarter.

Operating profits at the

chemical division were up

£16m from the second quar-

utive. "Investors have shown what they think by raising our offer price above Gebe's. There is an appetite for equities and investors are

excited by what they believe we can do with Lloyds." While he did not wish to get involved in an auction, UniChem had sufficient financing in place to increase the cash portion of its bid. Lloyds, which has been keen to get a resolution to the bid battle, yesterday advised its shareholders to 'defer taking any action".

higher feedstock prices. Capital expenditure in the

first nine months was up 21

per cent against last year,

and should reach 25bn for the year as a whole. But debt levels continued to

decline. Net dabt at the end

of September was \$6.5bn, well down on the \$7bn-\$8bn

range which the company is

targetting. Gearing fell to 24

per cent. US demand for LPG, page

Cost concerns behind cut in M&S forecasts

By Peggy Hollinger

Shares in Marks and Spencer fell 5 per cent yesterday and brokers cut full-year forecasts as the high street retailer announced plans to create 2,000 jobs in the UK and abroad and interim results at the lower end of expectations.

Sir Richard Greenbury, chairman, warned that extra investment to bring the total workforce to 57,000 would inevitably increase our cost base". He said it was necessary to satisfy M&S's growing number of customers around the world. He refused to quantify the costs but said they were expected to rise in line with sales.

The announcement came as the group turned in an 11.6 per cent increase in interim profits. Pre-tax profits of £430.1m (\$701.1m) against last year's £385.4m. compared with a forecast range of £420m-£465m. Sales from continuing operations rose 9 per cent to £3.58bn. The shares, reflecting the market's initial disappoint-ment over the profits, fell

26p to 483p. A 9 per cent rise in the cost base, which held back operating margins in the first half to a flat 12 per cent, surprised analysts. As a result, full-year forecasts were pulled back from about £1.16bn to about £1.11bn.

However, most said investment in service at a time of strong sales growth was a logical move and could win the company valuable long-term market share. Furthermore, the extra costs could be cut in hard times. "It is a way of flattening out the peaks and troughs of the economic cycle," said one analyst.

In spite of the market's said the group remained "on track for doing what we want this year". With consumer confidence returning to the high street, M&S was upbeat about prospects for the rest of the year. He rejected suggestions that M&S had reached saturation point in the UK, pointing out that only four stores currently carried the group's entire product range.

LEX COMMENT

M&S

if Marks and Spencer is the tortoise Sir Richard Greenbury, its chairman. believes, the market is the hare. M&S's share price fell by 26p, or 5 per cent, to 483p yesterday. But this says more about the market's excitable spirits than it does about the company's performance. Perhaps M&S's trading statements earlier this year fostered undue optimism; certainly there was little in yesterday's half-year figures to justify much anxiety. The

market chose to focus on

pturn thereing the ahithre:

the 2,000 extra jobs being created this year, which contributed to higher than expected costs. But to punish the company for this is perverse Not only is the investment the result of attracting more customers to its stores but it is aimed at bolstering service, one of the core values which underpins the group's success. Furthermore, the figures show that the M&S formula of product innovation, quality and service continues to fuel growth both in the UK and in newer markets like Europe and Asia.

If there is a criticism, it is that the cautious pace of the tortolse can be painful. Did M&S have to wait 21 years after entering France to open its first store in Germany The rejoinder, of course, is that the tortoise gets there is the end. With profit forecasts for the year trimmed back to around £1.1bn, the share is on a forward price/earnings ratio of 18. The growth prospects of the company would appear to justify this slight premium to the sector.

Whitbread

Whithread's evolution from traditional brewer to retail leisure group has left it basking in the glow of the UK's consumer spending recovery. Profits are growing at an impressive pace across its spread of businesses, helped by a £400m a year capital expenditure programme. It is little wonder the management sounds ebullient

Nonetheless, the pace of investment has made earnings growth easy in a low interest rate environment. The problem is delivering a decent return in the longer run. David Lloyd Leisure, acquired for £200m last year, will scarcely cover its interest charges this year. A pipeline of new clubs could help achieve a 15 per cent pre-tax return in four years time; but a fall in consumer spending would bring those returns down again. Whitbread's historic return on investment does not encourage confidence and the fashion for investment in pubs in the UK suggests

that such projects could soon become less profitable. The momentum within Whitbread's businesses should continue to drive profits faster than the stock market over the next two years, diluting such concerns. Whitbread's balance sheet can comfortably support its spending programme. In p/e terms, the shares are at only a small premium to the market. But while investors may make some hay during this blast of consumer sunshine. the harvest from Whitbread's recent acquisitions could

More acquires Swedish rival

London and Hugh Carnegy m Stockholm

More Group, the UK's largest outdoor advertiser, yesterday announced the acquisition of its biggest competitor in Scandinavi

for £78.1m (\$127m). The deal will be partly financed by a 1-for-4 rights issue, at 600p a share, to raise £48.6m. The shares fell 13%p to 684p yesterday.

More plans to buy Wennergren-Williams, the Swedish group which is the biggest outdoor advertiser in its home market and has recently expanded aggressively in Denmark.

Mr Roger Party, More's chief executive, stressed the importance of access to the Swedish market. Wenner-gren-Williams' dominance of that market was almost guaranteed, he said, because of strict planning restrictions on new advertising sites. "We are making this acquisition not because of the sarnings kick but because of the long-term strategic prospects."

With the deal partly funded by debt, Mr Parry said gearing would rise from 20 per cent to a pro forma 200 per cent, with net bor- other institutions.

More Group Stare price (pance)

25 / 105 / 1

cashflow should cut this. Henry Schroder, the investment bank, said it had included a tender element in sub-underwriting arrangements for the issue This was only the second time it had done so following its premiere last week with a £222m rights issue for Stakis. The tender element reduces fees and Mr Robert Swannell, head of UK corporate finance at Schroder, said it was likely to be used increasingly frequently. He warned, however, that entire issues were unlikely to go out to tender for fear of scaring off pension funds and

MAM's defined pensions grow

By William Lawis

Mercury Asset Management, the UK's largest fund manager, disclosed yesterday that over the last six months it had won more than 40 mandates to manage defined contributions pension schemes in the UK.

Defined contribution mance fees by clients.
schemes, through which members are able to build equity markets, net up their own individual funds, are one of the fastestgrowing areas of new business for institutional fund managers which have traditionally invested funds from defined benefit schemes.

rise in pre-tax profits to cent to £103.8m. £81.8m (\$133m) for the six months to September, Mr Hugh Stevenson, chairman, said: "This business [defined contribution schemes] will be an important source of

revenue and we are encouraged by the position which we have achieved in this rapidly growing market".

Turnover rose 26 per cent to £162.5m mainly because of a higher level of funds under management, which rose 21 per cent to £85.9bn, and the early payment of perfor-

Stripping out the rise in equity markets, net new business increased by £2bn. Expenditure on systems

and infrastructure, a higher provision for staff bonus payments and the consolida-tion of an Australian subsidiary resulted in operating Announcing a 29 per cent costs increasing by 27 per

One analyst said MAM's strategy on possible acquisitions appeared to be unclear and that it needed to focus on strengthening its US investment busines



Unaudited results for the six months to August 31, 1996

Transcript	C1 F0F	. 100
Turnover	£1,505m	+13%
Pre-tax profit*	£177.5m	+14%
Earnings per share*	27.10p	+14.5%
Dividends per share	6.25p	+9.0%

^{*}Excluding non-operating items

- This was a strong trading performance. Like for like sales growth was 5% with the remainder from acquisitions and new outlets.
- Trading cash flow continued to be good, helping to support a vigorous capital investment programme. Over £250 million has been invested so far this year to secure future growth.
- Our trading results confirm that consumer spending is on an upward trend and I expect this to continue. Competition, particularly in the eating out market, remains strong and at the same time customers' expectations in terms of value for money and quality of service have grown markedly.

Whitbread has worked hard to meet and frequently exceed these expectations. I am confident of the company's ability to compete successfully for an increased share of leisure spending.

Sir Michael Angus, Chairman

A copy of the unaudited results for the sta months to August 31, 1996 will be available from the Company Secretary, Whithread PLC, Chiswell Street, London ECTY 4SD.





COMPANIES AND FINANCE: UK

Upturn in brewing cheers Whitbread

Whitbread reaped the rewards of heavy investment in pubs, restaurants and brewing profits yesterday, when it reported a 13 per cent rise in interim pre-tax Whitbread would grow by profits-to £178.1m (\$290m).

It kicked off what should be a "real humdinging results season for brewers and pub owners," one analyst said. For many companies, beer volumes are up despite poorer summer weather than last year and some margins have firmed.

But the company tried to moderate analysts' enthusiasm for the second half. It would lack, for example, the year earlier's 58rd week of trading and competition remained fierce in the esting-out market.

In the six months to August, capital spending was more than £250m. Coupled with acquisitions, it drove net debt to £640m (£296m) for gearing of 27 per cent (12.5 per cent) and inter-

Mr Peter Jarvis, chief executive, said Whithread had made-the three big strategic acquisitions it needed over the past year: Marriott in hotels and an upswing in hotels, David Lloyd in sports centres, and Pelican in city centre restaurants. Now building those brands, brands developed in house

> Thus, the group was le likely to write off goodwill which it has had to pay on some acquired brands, he added. Including tax and goodwill written off, Whitbread's return on capital was 8.2 per cent against a cost of capital of 10.5-11 per cent, one analyst calculated. With the recent Pelican purchase hitting the current half, the return on capital will fall to

> and smaller opportunistic

Pre-tax profits from restaurants, hotels and leisure rose 58 per cent to 256.2m on sales up 18 per cent. Pizza Hut and TGI Friday's profits were up 20 per cent. Whithread Inns, the man-

aged houses, lifted profits 15 pub was up 7 per cent.

per cent to 277.4m on sales up 14 per cent. Food sales were up 23 per cent, amusement machine revenue was up 12 per cent and drinks 9 Whitbread Pub Partner-

ships, its tenanted houses, reported a 1 per cent rise in profits to £30.7m and a 3 per cent decline in sales, having on average 161 fewer pubs in the latest period. Profit per

Brewing profits rose 12.4 per cent to £30.8m on sales

up 8 per cent. In a market down 1 per cent, Whithread's volume from existing brands grew 3 per cent but by 8 per cent including the Labatt UK acquisition. Take-home volumes were up 10 per cent. while Stella Artois was ahead 19 per cent and Hein eken Export 29 per cent.

Electric accuses CalEnergy

Northern Electric accused CalEnergy. its Nebraskabased predator, of making "misleading" statements in its official offer document

CalEnergy, the indepenent power producer, argued that its £759m (\$1.24bu) cash offer of 630p per share and 103p per preference share was "full and fair".

It claimed that the £11 a share bid made by Trafalgar

Mr David Morris, Northern chairman, said the calculations behind this statement were "misleading" as they used the gross amounts paid out by the regional electricity company since the abortive bid. Northern has distributed about £540m in special dividends, a share

National Grid demerger. Northern's advisers produced their own calculations

once these pay-outs were stripped out. They warned shareholders not to accept the offer and reminded them of the special dividend of

56.5p next February. CalEnergy disagreed with the post-tax basis of Northern's figures and said it left out the effects of a windfall tax. Its offer was reduced by some £7m yesterday, adjusting for the number of shares in issue.

It reiterated its belief that which estimated Trafalgar's the offer was fair, pointing

price before bid speculation buoyed it.

CalEnergy emphasised the strategic value of the bid. This prompted Mr Morris at Northern to say that "CalEnergy itself recognises the strategic and commercial advantages which Northern would bring to it. But it is trying to buy these benefits

Northern has two weeks to respond to the offer. It is to bring forward the announce ment of its interim results.

RESULTS

	Times	ur (Em)		en-tax Ot (Cros)	ø	S (a)	Current payment (n)	Date of phymeal	Dividends - Corresponding dividend	Total for	Your fast
Augilian Water 5 miles to Sept 30	413.3	(372.2)	1327	(125.8)	45.7±	(41.2)	10.2	Feb 17	8.9		30
Ballway	305.6	(267.1)	32.2	[34]	20	121.4)	5.65	Jan 20	5.25	8.2	7.7
Brillish Airways 8 mins to Sapt 30	4,394	(4.029)	470	(430)	39.7	(33.8)	4.25	Jan 31	3.85	-	13.65
British Putroleum 9 mills. 10 Sept. 30	31,688	(26,807)	2,930	(1.9824)	37	(23.2)	5##	Feb 3	4	-	15.25
Cooper (Frederick) Yr to July \$1	94.7	(87.9)	121.	(3.984)	41.5L	(3)	1.95	Feb 3	1.0	2.6	2.7
Creston Land Yr to June 30	B.06	(7.58)	1.5	(6.84L.A)	2	(B.2L)	nH	-	mil	100	raiti
Dairy Crest 🖟 6 mins to Sept 30	381.6	(385)	16.5	(15.4)	9.94	(9.3)	3.26	Jen 23	-	-	-
Hartlepool Water E mitte to Sept 50	3.06	(2.98)	0.98	(0.94)	0.0	(9.7)	2.8	Jan 1	2.5	•	7.1
Marks and Spensor _ 6 mths to Sept 28	3,532	(3,248)	430.1	(385.4)	10.4	(9.3)	2.3	Jen 17	3	-	11.4
MAM 6 miles to Sept 30	162.5	(128.5)	81.8	(63.6)	30.9	(24.2)	10	Jan 3	6	-	354
Powerscreen full 6 mile to Said 30	157.6	(121.1)	20,4	(17.1)	17.3	(14.5)	2.8	Feb 13	2.5	-	9.2
Strafsgem	131.1	(90.7)	3.031.4	(4.05 P)	8.4L	(19.8)	2	Jan 2	4	- 4	6
Whitestal	1,505	(1,327)	178.1	(158.1)	27.23	(24,16)	6.25	Jan 20	5.76	-	21.85
Investment Trusts	3540	f (p)		ibatable nga (Est)	ø	\$ (9)	Correct payment (p)	Date of payment	Corresponding dividend	Toma ibr year	Time light
Gartmore European Yr to Sapt 30	205.9	(178.5)	0.50	(0.281)	2.16	(1.65)	1.5	Dec 20	1.2	1.5	1.2
German 6 miles to Sept 30	126.9	(-)	0.292	0.2721	0.7	40.71. 1				•	0.6
Yr to Sept 30	33B.99	(325.63)	3.06	(2.65)	12.88	(11.27)	7	Dpc 23	6.5	71	10
Montanaro MK 6 jodies to Sept 30-2	135.5	(108.8)	0.44	(0.318)	0.97†	(1.27)		-			1.5
Schroder locome Yr to Aug 31 *	119.06	(208.83)	4.17	(2.09	5,2?	(2.64)	1.35	+		4.35	2.25
Scottish Matternal Yr to Sept 30	64.9	(78.7)	13.7	(125)	0.54	(7.81)	2.6	Jan 7	2.7	8.6	7.7
Earnings abown basic, Dividends abown del	Finance	in brankat	s are for	COMMENSAGE	a Beriod	AAfter men	entined shares	Malter	dentina in the	ANTHION IS	deriver makes

Fayed acquires Alpha stake

Granada, the leisure group, yesterday sold its 25 per cent stake in Alpha Airports, the airline services group, for 252.4m cash. It was bought by a private company owned by Mr Mohamed Fayed, chairman of Harrods.

A spokesman for Mr Fayed described the deal as a personal investment that had no connection with Harrods. Mr Faved believed that international travel had great growth prospects.

at least six months.

Forte, the hotels group, in Alpha when it was spun beginning of 1994. Granada inherited the stake when it took over Forte at the begin-

disappointing results in its in-flight catering business. and the shares have struggled to stay above 1000 this year. Mr Fayed has paid 125p a share, a significant pre-mlum to the market, which marked the shares up 10 yes-

terday to 105%p. The deal follows last month's purchase of DFS, one of the world's biggest duty free shopping chains, by LVMH, the French luxury goods group, and Swissair's purchase earlier this year of Allders' duty free business.

Leaving aside the in-flight made through Cylena Estab- estering aftere is some logic lishments, which has in his Payer's interest in the pledged not to make an offer sirport retail division and for the remaining shares for the recently acquired US ground handling division — Harrods has 48 airport outretained a 35 per cent stake lets and has for the past year owned Metro Aviation, a leading ground handling business for corporate jets in

Europe. Granada will use the pro-

StMichael

RESULTS FOR THE HALF YEAR ENDING 28TH SEPT 1996

GROUP PROFIT BEFORE TAX UP £45 MILLION TO £430 MILLION (+12%)

GROUP SALES UP £296 M TO £3.5 Bn (+9%) (from continuing operations)

DIVIDEND INCREASED BY 10% FO 3.3p

INVESTMENT AND EXPANSION CONTINUES IN THE UK AND OVERSEAS

"I am pleased to announce a good half year performance, with sales growth across all areas of the business.

With increasing levels of consumer confidence now evident, the will continue to meet the exciting challenges ahead"

> HIGHLIGHTS FROM THE STATEMENT BY THE CHAIRMAN SIR RICHARD GREENBURY

www.marks-and-spencer.co.uk

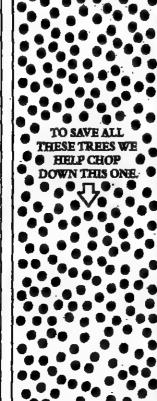
MARKS & SPENCER



11. define in alon

PERSONAL

PUBLIC SPEAKING





World Wide Fund For Nature

Sparkling performance by Spain and Italy Polish telecoms

GOVERNMENT BONDS

By Richard Lapper and Ramraj Gogna in London and Lisa Bransten An New York

A sparkling performance by Italian and Spanish bonds was the highlight of a generally strong day on international bond markets, with the Italian 10-year yield spread over Germany breaking through the 200 basis point mark.

Reports that Mr Boris Yeltsin's heart operation had been successful helped underpin the US and German markets, while investors in US Treasuries were there will be a soft interprealso encouraged by optimism that yesterday's elections would leave the political

landscape unchanged. After last week's hiccup, the German authorities to European convergence of the day. The optimism of Mr Jacques Chirac, the strict post-Emu stability French president, about pact, she added. Spain's chances of meeting the Maastricht criteria by quickly broke through a points

Russian debt jumps on news of successful Yeltsin surgery

gery provided a strong boost to Russian debt, writes Samer Iskandar.

Vnesheconombank debt denomi- sian bonds roughly 5 points higher nated in D-Marks showed the strongest than their lows of last week, and ana- 2.5 points.

Reports that President Borls Yeltsin performance, rising 3.625 to around lysts yesterday remained bullish. had successfully undergone heart sur- 82.375, while benchmark dollar-denommated Vnesh debt rose 2 points to 78.5. The five-day rally has propelled Rus-

However, bonds issued by the ministry of finance, which have been plagued by legal issues, lagged behind the Vnesh debt, rising by about 1.5 to

next year, bolstered both the technical resistance level at Spanish and Italian markets. Investors are also expect-2 points higher at 128.96. ing a report by the European In the cash market the 10-Commission, due today, to year yield spread over Gertake an optimistic view on many tightened by 12 basis the chances of both Italy and points, to 198. Mr Alex Coo-Spain meeting the Maasper, manager at Tullett and Tokyo, said Liffe traders "It does seem now that were now looking for the

tation of their criteria," said points in the short term. On Meff the December pean economist at San Paolo bone future gained 1.49, to Bank. Many investors expect settle at 108.75, while the 10-year yield spread over accept a more flexible inter-Germany fell by 10 basis criteria in exchange for a

exception, with the yield spread over Germany widen-On Liffe, the BTP contract ing by 7 basis points to 134

The UK gilts market rose 124.35, and closed nearly strongly amid brisk trading on the back of weaker than expected industrial produc-

tion figures. Liffe's December long gilt France unchanged at 4 basis future closed at 109%, a rise of more than one percentage point. In the cash market, the yield spread of 10-year spread to fall to 175 basis gilts over bunds narrowed by 2 basis points to 182 points. Traders were eagerly awaiting today's publication of the Bank of England's inflation report

Further evidence that the economic growth is slowing helped German bunds, reviving hopes that interest rates may still have further to fall. Shorter-dated issues benefited, with yields on bench-

mark two-year paper falling by 11 basis points. France moved in line with the German market with the German yield spread over

Trading in US Treasurles got off to a positive start as the dollar pierced the Y114 level against the Japanese yen and climbed against the

Traders in New York said

the strong overseas buying had led to optimism that healthy demand would be shown at the afternoon auction of \$18.25bn in three-year

The yield on the benchmark 80-year Treasury fell to 6.583 per cent, its lowest

level since early March, as the price jumped 15 to 1021 by midday. At the short end of the maturity spectrum the two-year note rose 🔒 to 100%, yielding 5.722 per cent. The December 30-year bond future rose # to 113#.

Investors also continued to bet that US voters would return a Republican majority to both houses of Con gress and send President Bill Clinton back to the White House, continuing the government's efforts to reduce the budget deficit.

Mr Richard Gilhooly, international bonds strategist at Paribas Capital Markets in New York, said he thought the market was getting close to being overvalued.

"If you do get the expected outcome [from the elections]. it has largely been priced into the market and it seems that the upside is limited." he said. He added that such overvaluation could spell trouble for the \$10bn auctions of 10-year and 30-year bonds set for today and

tapped three sectors: the US

dollar, the yen and the

D-Mark. There is one out-

standing Mexican issue in

populated region in south-west Poland. Earlier this year, Netla raised \$180m through a

A-loan from the European Bank for Reconstruction and Development, an \$85m B-loan syndicated among banks and \$15m from the Nordic Investment Bank. The interest margin on

that transaction was around 325 basis points over Libor. whereas the margin on the forthcoming deal is said to be closer to 250 points, reflecting a sharp decline in margins in the region.

lire, a two-year floater active players in the syndiby Pemex, the national oil

operator to raise \$115m

By Conner Middelmann

Netia South, the private Polish telecoms operator jointly owned by Sweden's Telia and Poland's RP Telekom, is set to become the latest central European borrower to benefit from international banks' hunger for high-yielding assets.

The company plans to establish a \$115m project finance loan facility, with Chase Investment Bank and Bank Handlowy w Warszawie mandated as arrangers. The banks have agreed to underwrite the facility, which is expected to be syndicated to a select group of banks late this year.

Through Telekom Silesia, its majority owned subsidiary. Netia plans to build, own and operate a telecoms network consisting of 250,000 lines in Silesia, a highly industrialised and densely

10-year project finance facil-ity, which included a \$75m

But while borrowers from other countries in the region, including Hungary, the Czech Republic, Slovenia and Slovakia, have been

only around \$300m this year. This is partly because liquidity in the domestic banking sector and flerce competition among Polish banks have made it cheaper for companies to borrow funds at home than abroad.

However, observers say this is likely to change. "The general fall in interest margins for eastern European borrowers means that Polish pricings in the international market will converge towards domestic rates," says one banker.

Moreover, as the financing demand in Poland grows, the capacity of local banks to provide enough funding may become exhausted," he

But even if Polish borrowings in the international syndicated loans market increase, interest margins are not likely to fall as quickly as, say, in Hungary, because some banks are still wary of lending to Poland.

"There's always a big hangover of caution with any country that has rescheduled its debt," says Mr Lorenz Jorgensen, senior banker at the EBRD's syndications department.

Japanese banks, which have been instrumental in driving margins in other eastern European countries lower, are cautious of entering countries that have rescheduled their debt, as Japan's ministry of finance does not seem eager to encourage an atmosphere of

forgiveness, bankers say. By contrast, most German and Austrian banks do not need to make provisions against Polish assets, and many US banks have relatively loose provision

DOMESTIC OF ALL

Barra

Small deals compete with World Bank for attention

tricht criteria next year.

INTERNATIONAL BONDS

Primary market activity all but ground to a halt yester-day, as a handful of small deals competed for the attention of investors with yet another lira-denominated zero-coupon issue by the World Bank.

Emerging market-hungry investors were offered a novel securitisation by Venezuela Synthetic Sovereign Investment. The deal is a repackaging of existing Repub-2007, originally denominated

WORLD BOND PRICES

BENCHMARK GOVERNMENT HONDS

The new securities are in Dutch guilders and pay a coupon of 9 per cent. ING-Barings, the lead manager, said the deal - the first appearance by Venezuela in the guilder sector - was "a test case" inspired by the recent success of similar

securitisations in D-Marks by Morocco and Venezuela. Walt Disney Company reached out to the antipodes time it has tried to raise money in this currency. Hambros Bank, the lead manager, said the borrower "wanted to tap a retail cur-

name recognition", as it did

rowed in Italian lire and Swiss francs,

The paper generated "strong interest" among Germany and the Benelux region. Hambros said. adding that it expected the issue to attract good demand from Asia overnight.

The sterling sector saw a 10-year issue of subordinated bonds by Landesbank Schleswig Holstein. SBC Warburg, the lead manager, said existing subordinated debt with maturities in the 2003-2006 region had become very expensive on the secondary market, which

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125.80 125.00

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Open Sett price Change 125.60 +1.90 124.60 +1.68

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STEPLING	W. 7.5.		- E-1	17 Y	11.75		STEP PERSON
LE Schleswig Holesonie)	100	8.00	99,451R	Dec 2006	0.35R	+30(71/41/4-08	SBC Warburg
FRENCH FRANCE							
GCDQ	100	5.50	96.95R	Dec 2002	0.525R	+26/81/-96-02	Bancus Nationale de Paris
E QUILDERS			33.0				
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favoured some swit							f the peso crisis of

It also pointed out that "UK investors appreciate the state guarantee provided to Lendesbank debt", and value such securities better than bonds by traditional German

maiden issue in Italian lire, possibly of floating-rate notes, for a total amount of around L500hn.

Since its return to the international market in 1995, after a long absence in the

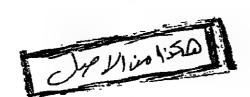
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CURRENCIES AND MONEY

Dollar gains in final trading before US election

By Simon Kuper

The dollar gained ahead of last night's US elections on the belief that the Republicans would keep control of The Swiss franc hit a fresh Congress while President 20-month low against the Clinton would win re-election. Currency strategists ued tight US fiscal policy ful open heart surgery. The set out in the Maastricht and thus a stronger dollar. The dollar also benefited from yesterday's rise in US

stocks and bonds. The D-Mark suffered on a The D-Mark suffered on a Norway unexpectedly cut Greece would fail to meet second successive day of its deposit and overnight the criterion. With the weak German economic fig- lending rates by 50 basis ures, with orders data com-ing in lower than expected. This suggested that the German recovery was weaker than expected, and a Bundesbank rate hike a more distant prospect than many currency analysis had - Pos

later hit by reports that a large number of countries could qualify for the first

. round of European monetary union. This revived "convergence trades", in which traders sell the D-Mark and buy the lira and peseta on expec tations that yield curves will converge.

D-Mark on news that Mr 15 European Union member Boris Yeltsin, the Russian said this suggested a contin- President, had had success-Swiss franc is considered a safe haven currency that thanks to strong European rises during international

points, hoping to weaken the appreciating krone. The dollar closed in Lon-

don three tenths of a pfennigs stronger against the D-Mark at DM1.516 and Y0.2

1.6485 1.6484 1.6434 1.6432 1.6307

firmer against the yen at Y114. The yen was unchanged against the D-Mark at Y75.20.

reports yesterday, the European Commission will today say that as many as 13 of the states are on track to meet treaty. The progress was economic growth, the reports said. Only Italy and French President Jacques Chirac saying yesterday that Spain was sure to qualify for the first round of Emn, belief

rency would have many mounbers The peseta and lira rose marginally against the D-Mark. But one currency strategist said the rise would have been more pronounced but for lira selling by the

the single European cur-

Against the D-Mark (SKr per DN)

said the central bank wants to stop the lira from appreciating too much before its expected entry into the European exchange rate revived in the markets that mechanism later this month. Italy is seeking an entry rate while France wants a stron-

> same strategist pointed out that Spanish

> > (Peec) (Rif) (Cit) Peec) (8)

than UK yields, which were almost on a par with Italian yields. He said the favourable yields helped sterling to withstand weaker than expected UK industrial production and manufacturing output figures yesterday. The pound rose another two fifths of a pfennig against the D-Mark to close at DM2.496, after hitting resistance at DM2.50.

■ Norges Bank, the Norwegian central bank, surprised the markets with a 50 basis point interest rate cut when most analysts had expected the bank to raise rates. The fall in the deposit rate to 4 per cent and the overnight lending rate to 6 per cent

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krone, which closed in London at Nkr4.203 to the D-Mark.

Mr Kjell Storvik, Norges Bank's governor, said the rate cut was meant "to reduce the krone's appreciation". The currency has risen on the back of high oil prices and strong economic growth, and the bank said it had been forced to sell the krone to weaken it.

Mr Jeremy Hawkins, chief economist at the Bank of to the change in government in Norway a formight ago. when Mr Thorbjorn Jagland succeeded his fellow Labour lem Brundtland as prime minister. "A cynical view ernment applied pressure on the bank to trim rates," Mr

update, ring FT Cityline on +44 990 209909 To aubecitive, call +44 171 873 4371

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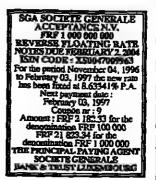
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UNITED MEXICAN STATES Floating Rate Notes due 2001 Notice is hereby given cursusht to the Indenture dated as of August 5, 1996 that, for the Accrual Fenned Irom November 6, 1996 to but excluding February 6, 1997, the Florang Rate Notes will bear interest at the rate of 7.8629% per annum. The interest payable on February 6, 1997 will be US\$19.33 per US\$1,000 principal amount of Notes



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COMMODITIES AND AGRICULTURE

Surge in US demand buoys market for LPG

By Deborah Hargreaves

Prices for liquefied petroleum gas have risen strongly over the past two months as demand in the US has surged. The booming market has hit US petrochemicals producers hard, along with other companies which use propane and butane as raw materials.

LPG contract prices from Saudi Arabia - the main supplier - were recently fixed at \$250 a tonne for rently at 52 cents a gallon, and Mr

increase of almost \$50 a tonne from the October price and higher than most analysts' expectations.

"The market has been strong all year - we thought it would peak early and fall off, but the latest Saudi contract prices make us think there won't be a peak until January," said Mr Ron Gisd, associate at Purvin & Gertz, the Houston-based oil analysts.

Spot prices in the US are curboth propane and butane, an Gisd believes the market will

average 60 cents a gallon in January. "That's just an average there are likely to be higher price spikes in cold weather," he said. The LPG market has been bol-

stered by the recent strength of prices for crude oil and refined products such as heating oil and jet fuel. Strong naphtha prices have encouraged some ethylene producers to use LPG as a feed stock to save costs on naphtha. but this has led to an escalating upwards spiral in prices.

British Petroleum said yesterday that the higher cost of naphtha had dampened the rise in profits at its chemicals unit for the third quarter.

Argus LPG World, the trade publication for the liquefied petroleum gas industry, noted that prices for butane are at their highest levels for 18 months and that the propage market is stronger than in February, which is the time of peak demand for the product as a heating fuel.

US propane and butane stocks are at their lowest levels since the Gulf war at 51m barrels, down from 56.5m barrels in October 1995. Supplies on the US Gulf coast are particularly tight and these are usually drawn on later in the winter to replenish the main consuming centres in the

north-east of the US. World supplies have become tighter since an explosion in July closed a large Pemex gas plant in Mexico which produced one-third UK Company News

of the country's needs. Since then, Mexico has been forced to become a net importer of LPG, rather in gold than a net exporter.

Propane and butane are used for cooking and heating in Asia. The US uses 300,000 barrels a day of propane in ethylene production as well as for agricultural uses. Demand remains strong across the globe as consumers chase tight supplies.

ditionally used commodity

ingly towards hedging is a

tocks of raw materials as a

dicted last week that moves

towards just-in-time roasting

and savage cuts in coffee

inventories would force

exporters, traders and pro-

cated financial mechanisms

to offset price volatility.

speech in Bogota.

ssors to resort to sophisti-

"Risk management, simi-

lar to an insurance contract,

recent rise in oil prices.

future production.

BP results, see

There are signs that investors are taking a fresh look at gold in the final quarter of this year because of worries about a possible sharp technical fall in share

cious metals consultancy. However, it suggests that the gold price is unlikely to react until investors "return forcefully, possibly toward

prices, according to CPM, the New York based pre-

Signs seen

of fresh

By Kenneth Gooding,

Mining Correspondent

futures and derivative prodthe middle of 1997". ucts to fix a price for sales of In its latest survey, CPM recalls that a surge in inves-Another factor likely to tor interest pushed gold to encourage consumers and nearly \$420 a troy ounce in producers to turn increas-January and February this year but in March investmove towards just-in-time ment demand for physical delivery. This has seen commetal faded and the price fell back below \$400. Gold panies carrying much lower closed in London yesterday buffer against volatile prices. at \$379.45.

The oil industry's decision investors will add about to carry lower stocks has 2.2m ounces to their net been one reason for the holdings this year, CPM suggests, 47 per cent more than in 1995. Net investment Mr Celsius Lodder, head of the International Coffee demand could reach 3.9m Organisation, the producers and consumers body, preounces next year.

Net sales of gold by cen-tral banks - another key factor in the market - are projected to reach 10m ounces in both 1996 and 1997. Some 2m ounces of next year's total could be provided by the International Monetary Fund, which is expected to sell 5m ounces in all.

will become an increasingly "These sales are not important instrument for the industry," he said in a expected to disrupt the gold market," CPM insists. It suggests 89m ounces of Cynics say that those comnewly refined gold will panies that do hedge can reach the market this year. gain from a period of com-4.2 per cent more than in modity price volatility by 1995. This supply is forecast raising their own prices - so increasing their margins to increase next year by another 2.2 per cent to 91m. while competitors struggle DEDGES.

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Gold Survey 1996. CPM Group, 37th floor, 30 Broad Street, New York, NY 10004.

Crude oil edges higher

of \$6,650.

MARKETS REPORT By Robert Corzine and Kenneth Gooding

Crude oil prices edged upwards yesterday after six days of steady losses shaved about \$2.50 a barrel off the price of the benchmark Brent Blend for December delivery. It was quoted at \$22.35 a barrel in late Lon-

don trading, seven cents up

on Monday's close. British Petroleum vesterday said it expected oil prices to remain relatively firm in the fourth quarter. But the recent oil price rally has done little to change BP's longer-term view. It still expects average prices to remain in the \$16-\$18 concentrate. range over the long term.

said company executives. Prices of refined products such as gas oil and jet fuel weakened yesterday, as traders waited for the latest inventory statistics from the American Petroleum Institute. November gas oil futures on London's International Petroleum Exchange closed 50 cents down at

\$208.50 a tonne. On the London Metal Exchange tin retested the 17-month low of \$5,890 a tonne it reached on Monday. A "bear" raid has driven the

price down from a 1996 high

Mr Ted Arnold, an analyst at Merrill Lynch, said it was too early to expect a strong price recovery on the back of consumer demand. Supplies of tin "come out of the woodwork" at the right price, he suggested - and the right price seemed to have moved down from \$6,800 to \$6,400. Noranda of Canada has closed its Heath Steele zinc and lead mine in New Brunswick after an explo-

sion killed one miner and injured another on Monday. Production is not expected to be interrupted for long at the mine, which produces 100,000 tonnes a year of zinc concentrate and a little lead

Zinc prices brushed aside the potential impact, even though this is the second disruption Noranda has suffered in recent months. It lost an estimated 40,000 tonnes of zinc metal when Its Brunswick mine was affected by seismic activity.

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- 40		
Aluminium	-3,426	to 966,000
Aluminium stloy	-190	ь 77,260
Соррег	-2,525	to 121,175
Lead	-400	to 118,275
Niciael	+720	to 43,134
Znc	-850	to 541,026
Tin	-146	to 9,820

Price rises put spotlight on hedging

Industrial companies which had taken stable raw materials prices for granted have had to think again this year.

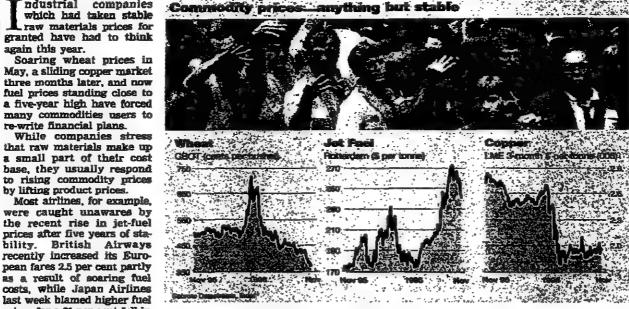
Soaring wheat prices in May, a sliding copper market three months later, and now fuel prices standing close to a five-year high have forced many commodities users to re-write financial plans. While companies stress that raw materials make up a small part of their cost base, they usually respond

by lifting product prices. Most airlines, for example, were caught unawares by the recent rise in jet-fuel prices after five years of stability. British Airways recently increased its Euronean fares 2.5 per cent partly as a result of soaring fuel costs, while Japan Airlines last week blamed higher fuel

first-half profits. Food companies such as Nestle, as well as breadmakers and biscuit-makers. were hit hard by sharp increases in grain prices earlier this year and a surge in the coffee market two years

prices for a 61 per cent fall in

However, companies do not have to see their bottom lines savaged by a jump in fuel or flour bills. On most large commodities, brokers offer simple hedges which act like insurance contracts. guaranteeing payment of a



hedge against rising costs, but many had become complacent in recent years about stable and falling commodi-

"I have been quite surprised at the way the indus-try has tended to disregard fuel as an important part of its cost base," says Mr William Gaillard, at the International Air Transport Association in Geneva. British Airways says it has

a hedging policy, but declines to give details. US carriers have traditionally period.

been more reluctant to hedge costs, because of a Horn, executive director of conservative approach to

ost fuel contracts for users such as **▲ V ▲** airlines, freight companies, bus operators and industrial consumers like British Steel are priced on a monthly basis at a premium or a discount to the average quoted energy cost. Brokers offer a range of contracts allowing users to lock in to a price for a longer

For example, Mr Lindsay energy derivatives at Lehman Brothers in London, explains that an airline could buy into a fixed-forfloating-rate oil swap now which would guarantee its prices for buying jet fuel next summer. The airline would continue to buy from its traditional suppliers, but the broker would take on the risk of the floating-rate price

payment, leaving the airline to pay a fixed price. Mining companies and some oil producers have tra-

Deborah Hargreaves 555 JOTTER PAD

COMMODITIES PRICES

BASE METALS LONDON METAL EXCHANGE M ALUMINDUM, 99.7 PURITY & par lonning

1398.5-99.5 1427-27.5

High/low AM Official	1403 1402.5-3.0	1437/1426 1429.5-30.0
Kerb close Open int. Total daily turnover	238,961 62,589	1432-3
E ALUMINIUM AL		nne)
Close	1250-55	1280-83
Previous	1248-53	1278-60
High/low AM Official	1250-52	1285/1280 1280-1
Kerb close	1200 02	1265-90
Open int.	8,256	
Total daily tumover	1,112	•
E LEAD (\$ per tor		
Close Previous	740.5-1.5	743-4 740-41
Highligh	738-37 741,8/741	745/738
AM Official	741-1.5	742-0
Kerto close Open int.	39,758	743-4
Total daily hymover	9.611	
M NICKEL S per 1	Onnei	
Close	7035-45	7180-55
Previous	7035-46	7145-50
High/low AM Official	7040-45	7185/7120 7150-55
Kerb close	,	7150-55
Open int	47,195	
Total daily turnover III TRN (\$ per tonno	12,004	
	5830-40	5900-05
Close Previous	5835-45	5010-05
High low	5630	5020/5880
High fow AM Official	5830-35	5895-900
High low		
High flow AM Official Nerts close Open int. Total daily furniture	5830-35 15,439 4,505	5895-900 5900-05
High fow AM Official Nerts close Open int.	5830-35 15,439 4,505 igh grade (5 p	5895-900 5900-05 er torino)
High flow AM Official Nerts close Open int. Total daily turnover In ZINC, special in Close	5830-35 15,439 4,505 igh grade (5 p	5895-900 5900-05 er torino)
High flow AM Official Nerth close Open int. Total daily turnover In ZINC, special in Close	5830-35 15,439 4,505 igh grade (5 p	5895-900 5900-05 er torino)
High Tow AM Official Nerts close Open int. Total daily turnover int ZRNC, special in Close Persons High low AM Official	5830-35 15.439 4.505 igh grade (5 p 1038-9 1043-44	5895-900 6900-05 er torino) 1062.5-3.0 1066-67 1066-1061 1062-2.5
High Tow AM Official Nerts close Open int. Total doly turnover int ZNIC, special in Close Persons High low AM Official Kerb 4050	5830-35 15.439 4.505 igh grade 65 p 1038-9 1038-44 1038 1038 0-8.5	5895-900 6900-05 er (orino) 1062-5-3.0 1066-67 1066/1061
High Tow AM Official Nerts close Open int. Total daily turnover int ZRNC, special in Close Persons High low AM Official	5830-35 15,439 4,505 igh grade (5 p 1038-9 1043-44 1038	5895-900 6900-05 er torino) 1062.5-3.0 1066-67 1066-1061 1062-2.5
High Tow AM Official herts close Open int. Total daily turnover in ZINC, special in Close Persona High Tow AM Official Kerb close Open int	5830-35 15,439 4,505 4gh grade & p 1038-9 1043-44 1038 1038 0-8.5 82,735 16,385	5895-900 5930-05 (1082-5-3,0 1082-5-3,0 1086-87 1086-1081 1002-2,5 1081-81,5
High Tow AM Official Nerts dose Open int. Total daily turnover int ZRNC, special in Close Persona High Tow AM Official Nerts dose Open int Total daily turnover	5830-35 15,439 4,508 4,508 igh grade & p 1038-9 1038-44 1038 1038 0-6.5 82,735 16,385 4 A (5 per torne 2006-8	5895-900 5930-05 er torno) 1062-5-3.0 1066-47 1066-1061 1082-2.5 1061-61.5
High Tow AM Official Nerts close Open int. Total daily turnover int ZNC, special in Close Persons High low AM Official Nerts close Open int Total daily furnover in COPPER, grade Close Provious	5830-35 18,439 4,505 igh grade & p 1038-9 1038-9 1038-0-4.5 1038-0-4.5 16,385 A (5 per term 2006-8 2012.5-14.5	5895-900 6930-05 er torne) 1052-5-3.0 1056-87 1066-1061 1002-2.5 1061-81.5
High Tow AM Official Nerts close Open int. Total daily turnover int ZBNC, special in Close Persons High low AM Official Kerb close Open int. Total daily turnover in COPPER, grade Close Freu cus High low	5830-35 15,439 4,508 4,508 igh grade & p 1038-9 1038-44 1038 1038 0-6.5 82,735 16,385 4 A (5 per torne 2006-8	5895-900 5930-05 1062-5-3.0 1062-5-3.0 1066-67 1066-67 1061-61.5 1967-6 1971-72 1980/1967
High Tow AM Official Nerts dose Open int. Total daily turnover int ZRNC, special in Close Persons High Tow AM Official Nerts dose Open int. Total daily furnover in COPPER, grade Close Provious High Tow AM Official Nerts dose Open int. Total daily furnover in COPPER, grade Close Provious High Tow AM Official North close Clo	5830-35 18,439 4,505 48,505 1638-9 1043-44 1038-0-4.5 16,385 16,385 A (5 per torne) 2006-8 2012-5-14-5 2013-40 2013-4	5895-900 6930-05 er torne) 1052-5-3.0 1056-87 1066-1061 1002-2.5 1061-81.5
High Tow AM Official Nerts close Open int. Total daily turnover int ZRNC, special in Close Persons High low AM Official Kerb close Open int. Total daily turnover in COPPER, grade Close Previous High low AM Official Nath close Open int.	5830-35 15,439 4,503 4503-9 1033-44 1038 1038 0-6.5 82,735 16,385 4 A S per torm 2006-8 2015-5-14.5 2013-201 2013-41	5895-900 6930-05 er toring) 1062,5-3.0 1066-87 1066-1061 1062-2.5 1061-61.5 e) 1957-8 1971-72 1990/1957 1972-3
High Tow AM Official Nerts close Open int. Total daily turnover int ZRIC, special in Close Preside High low AM Official Nerts close Open int. Total daily turnover in COPPER, grade Closal Previous High low AM Official Narts close Open int. Total daily turnover int. Total daily turnover	5830-35 15,439 4,508 4,508 99 grade & p 1038-9 1038-44 1038 1038 0-6.5 82,735 16,385 9 A (5 per torne 2006-8 2012,5-14.5 2013-201 2013-4 170,264 46,032	5895-900 5930-05 1062-5-3.0 1066-87 1066-1061 1082-2.5 1061-61.5 4 1967-8 1971-72 1990/1957 1972-3 1961-2
High Tow AM Official Nerts close Open int. Total daily turnover int ZRNC, special in Close Persons High low AM Official Kerb close Open int. Total daily turnover in COPPER, grade Close Previous High low AM Official Nath close Open int.	5830-35 15,439 4,505 4505 4508 1038-9 1043-44 1038 1038-0-8.5 82,735 16,385 4,5 per term 2006-8 2012-5-14.5 2013-2010 2013-4 170,264 46,032	5895-900 6930-05 1062-5-3.0 1066-67 1066-1061 1002-2.5 1061-81.5 4) 1967-8 1971-72 1980/1967 1961-2
High Tow AM Official Nerts dose Open int. Total daily turnover int ZNIC, special in Close Persons High Tow AM Official Nerts dose Open int. Total daily furnover in COPPER, grade Close Provious High Tow AM Official North Cole Am Official North Cole Am Official North Close Open int. Total daily furnover and Close Open int. Total daily furnover and daily f	5830-35 18,439 4,505 19,439 1039-9 1043-44 1038 1038-0-6.5 82,735 16,385 16,385 2006-8 2012-5-14.5 2013-2010 2013-4 170,244 46,032	5895-900 6930-05 1082-5-3.0 1086-67 1086-1081 1082-2.5 1081-81.5 4) 1967-8 1971-72 1980/1967 1972-3 1961-2

93 10 -1 10 94 30 92 89 92 65 -1 46 73 56 91 60 91 35 -1 10 91 30 91 00 90 65 -1 20 91 70 90 00 89.60 -1.10 91.00 89.30 1.176 11.849 89.25 -1.00 - 7 545 6,306 67,789

PRECIOUS METALS I LONDON BULLION MARRET

Gold(Troy oz) \$ price Close 379.20-37950 379 10-379 40 379.25 229.320 481.344 379.30 229.753 482.925 Morning fix 379 45-379.75 Previous close 378 80-379 10

Loco Lan Mean Gold Lending Rates (Vs USS) 3 months . Silver Fis ≅83.20 488.90

292,40 296,45 309,45 309,70 5 montes £ oquiv. 231-233 **Gold Coins** 384.20-386.65 89-92 54-56

Precious Metals continued ■ GOLD COMEX (100 Tray oz.; \$/tray az.)

- 380.5 179.4 +0.2 382.5 381.4 +0.2 864.7 383.7 +0.2 367.0 388.0 -1.1 540 20,909 73 12,163 45 11,164 PLATINUM NYMEX (50 Troy oz.: \$/troy oz.) 384.1 -10 Web 383.0 852 16,782 386.5 -1.1 Meb 386.0 13 8,122 386.5 -1.1 - 4 978 382.8 -1.3 - 4 138 117.89 +0.35 119.90 117.25 378 118.95 +0.35 120.50 118.50 294 119.95 +0.35 - - 25 -1.5 479.0 479.0 11 11 -1.5 463.0 478.0 1239 6239 -1.5 - 28 481.3 -1.5 - 28 485.9 -1.6 490.0 484.5 BD9 14,937 **ENERGY** M ORUDE OIL NYMEX (1,000 barrels, \$/barrel) 22.81 +0.02 23.08 22.65 34.962 86.874 001 22.79 21.85 2.244 23,789 004 21.76 21.46 850 16,060 - 21.37 21.26 2.308 11,932 E CRUDE OIL IPE (\$/borreft 22.22 -0.06 22.50 22.24 17,073 61,048 21 92 8,385 53.267 21 47 2,846 25,877 20 99 1,608 28,234 20 52 1,477 9,485 20 06 424 4,885 Feb Mar Apr May Total

M HEATING OIL NYMET (42,000 US gails., c/US gails.) 65 W -0.35 66.25 65.25 14,202 40,839 -0.27 64.95 63.95 3.159 15.916 -0.07 62.75 62.20 1.353 8,719 -0.17 59.80 58.80 578 5.357 +0.03 57.50 57.00 168 3,127

25,430 122,007 E GAS OIL PE (\$10me 208.75 -0.25 209.00 206.25 8,685 28.007 204.25 -1.00 205.00 202.25 8.537 24.835 20150 -1.50 20275 20000 8,224 20,075 197.00 -1.50 198.25 195.50 1,766 8,967 19150 -1.00 191.50 190.75 69 6,166 195.50 -0.75 185.50 185.50 15 4,730 NATURAL GAS NYMEX (10,000 max80x.; Sima80x.) Latest Day's price change High Law Wall and 2650 +0.077 2.660 2.530 18,542 39.616 26.55 +0.059 2.830 2.515 7.134 22,638 2.375 +0.059 2.380 2.275 3.026 14.307 2.200 +0.048 2.200 2.120 1.209 10,164 2.059 +0.034 2.669 1.995 528 5,898 2.010 +0.025 2.010 1.970 468 4,673 38,421 149,355

34,121 143,555 NYMEX (42,000 US galls.: e/US galls)

\$5.05 +0.05 65.80 64.70 13,933 25,688 62.65 -0.10 63.15 62.25 5.228 13.238 62.25 +0.17 62.40 61.80 1,336 62.25 +0.05 62.50 62.10 230 64.40 +0.27 84.40 64.35 219 219 2.554 GRAINS AND OIL SEEDS WHEAT LIFTE (2 per torme)

83.50 -0.25 83.50 93.00 94.50 -0.75 94.73 94.40 96.10 -0.60 96.30 95.75 97.30 -0.90 97.50 97.00 98.80 -0.70 98.75 98.75 96.25 -0.25 95.25 96.00 WHEAT CET (5,000bu mir; cents/80th bushel) 388.75 -11 279.50 388.00 8,671 30,588 384.00 -8.5 372.50 383.50 5,320 17,008 381.00 -7 388.00 350.00 925 2,919 380.75 -8 347.00 339.00 1,128 11,108 344.00 -8.5 348.50 343.60 - 280 351.80 -7 388.50 382.50 2 176 258.50 -8.25 260.75 257.75 47,966134,322 283.50 -4.25 287.90 282.75 16.353 26.835 269.75 -4.5 273.50 289.00 5,991 42.643 273.75 -5.25 277.50 278.25 6,256 34.666 273.75 -8.25 277.50 278.25 8.295 34.466 273.75 -8.25 277.50 278.25 8.295 34.466 270.50 -3.5 274.00 288.50 386 3.806 288.50 -4 273.25 288.75 3.844 28.251 M BARLEY LIFFE (2 per torme) \$1.50 +0.50 \$1.50 \$0.50 \$2.25 -0.50 \$2.25 \$2.25 \$2.50 -0.76 \$2.50 \$2.50 \$4.75 -0.70 \$4.75 \$1.60 -+4 572.50 995.50 8.925 9.894 +2 576.00 668.50 35,464 73,690 677 50 +1.25 682.00 675.00 5,428 33,661 680.50 - 685.00 676.00 1,484 15,785 682.75 - 687.50 681.00 2,223 14,963 679.50 -1.5 684.00 679.00 136 1,891 SLEM (RED) W SOYABEAN OIL CET (80,000lbs: cents/lb) 22.82 +0.08 22.94 22.70 7,101 45.967 21.06 +0.06 21.18 22.96 2.196 20.864 23.46 +0.06 23.55 23.35 2,461 18,657 23.78 +0.06 23.83 23.67 1,060 10,426 24.08 +0.06 24.12 23.90 948 4,673 24.10 +0.07 24.15 24.16 12 1,367 13,672 194,618 M SCYABEAN MEAL CET (100 tone; S/ton) 220.4 +1.9 220.8 218.3 11,008 37,133 215.0 +1.2 215.5 213.4 3,068 13,188 211.3 +0.5 212.2 210.6 3,078 19,306 208.0 +0.3 210.0 208.5 1,008 8,982 208.9 -0.1 208.8 208.5 768 6,565 208.3 -0.2 209.0 208.5 136 1,319 M POTATOES LIFFE (C/tonne) -35 -15 -29 -20 69.0 77.5 87.5

FREIGHT (BIFFEX) LIFFE (\$10/index point) +47 1485 1444 +56 1431 1385 +40 1382 1380 +42 1405 1383 +27 1180 1155 +35 145 130 123 42 16

FUTURES DATA All Alburos class supplied by CMS.

Minor Motals European free market, from Metal Bulletin, S per 80 m werehouse, unless otherwise stated (last week's in brackets, where changed). Antimory; 99.65%, 5 per torne, 1,950-2,000 (2,000-2,050). Beausite min. 99.99%, tonne lots 3,20-3,50. Caderiusee min. 99.95%, cents a pound, 70-75. Cobalt: MB free market, min. 99.8%, 21,00-21,80 (21,00-21,70); mar. 99.3%, 18,50-20.80 (18,60-20.60). Meanwater min. 21 00-21.80 (21.00-21.70); nam. 99.3%; 19.50-20.80 (18.60-20.80). Mercury: min. 19.59%, \$ per 76 ib fleek, 162-172, Melybdensum: druntmed molybolic colde, 4,00-4.30. Selenisum: min 19.5%, 2.80-3.80 (2.90-4.00). Tungeten over standard met. 65%, \$ per borne unit (10kg) WO₂ cit, 40-50, Vancellum: min. 98%, cit, 3.10-3.25. Utransams Nuesco universitated exchange value, 14.90 (15.25). SOFTS COCCA LIFTE (Dim 960 1,035 14,282 970 798 12,083

III COCOA CSCE (10 tonnes: S/tonnesi -7 1334 1316 8.862 18.375 -5 1874 1368 7.977 27.182 -6 1396 1390 634 8.060 -6 1412 1395 446 6.320 -1 1430 1415 578 5.865 -1 1448 1445 10 829 1520 1402 1345 1333 1322 1484 382 8,942 1395 1,996 18,035 1327 544 8,544

-8 +12 +7 +6 +6 +6 1311 III COFFEE 'C' CSCE (37.500lbs; cents/lbs) 118.85 +1.10 119.00 116.80 2.403 10.383 Dec Hear Hear Jul Sep Sec Title 107.90 +0.85 108.00 106.40 1.821 109.00 +0.80 105.00 102.50 313 108.00 -0.05 103.85 103.00 38 102.25 -0.25 103.00 102.50 13 36 13 ■ COFFEE (ICO) (US cents/pound)

III WHITE SUGAR LIFFE GAZONS 1865 27799 ■ SUGAR '11' CBCE (112,000lbs; cents/ 10.33 -0.02 10.38 10.32 6.547 86.717 10.44 +0.02 10.45 10.41 1,304 30,456 10.57 - 10.38 10.36 112 19,007 10.37 +0.01 10.36 10.36 112 19,007 10.38 - 10.38 10.38 511 11,208 10.38 - 10.38 10.38 577 3,575 10.36 - 10.39 10.38 100 557

72.27 -0.25 72.57 72.23 2.726 23,865 74.21 -0.22 74.55 74.20 938 14,399 75.30 -0.25 75.65 75.30 380 8,844 78,00 -0.25 76.26 76.00 84 6,730 E CRANCE JUICE NYCE (15,000 min to 109.30 +2.20 109.05 107.00 140 4.594 90.45 +1.10 98.00 97.20 2,007 8,957 101.10 +0.80 101.50 100.10 432 4,754 103.50 +0.80 103.80 103.40 105.50 +0.80 106.60 106.00 107.85 +1.15 - -

VOLUME DATA Open interest and Volume data shown for contracts traded on COMEX, NYMEX, CET, NYCE, CME, CSCE and IPE Crude Oil are one day in agreers. Volume & Open Interest totals are for all traded mornes.

INDICES ■ Rectors (Bess: 18/9/31 = 100) Nov 4 1852.8 ments ago year ago 1894.9 2136.5 ■ CRB Feteres (Bete: 1967 = 100) Nov 4 Nov 1 month age 236.52 237.30 ■ Q9Cl Spot (Sanc. 1870 = 100)

MEAT AND LIVESTOCK ELIVE CATTLE CIVE (40,000bs; ounts/ba)

67.025 -0.200 67.425 86.800 5,048 36,506 63.975 +0.025 64.250 83.700 1,350 19,467 85.900 +0.125 85.125 85.750 1.928 12.912 83.750 +0.025 83.975 83.525 1.087 8,118 83.000 — 63.200 62.925 566 5,417 85.725 +0.078 85.800 65.800 24 3,768 E LINE HORS ONE NUMBER CONTRACTOR 96.200 +0.260 88.480 55.500 5,713 12,618
76.100 +0.150 76.250 75.300 2,720 8,574
71,025 -0.125 71,350 70,750 502 3,045
78.500 +0.125 75.800 75.100 440 355
73.250 +0.050 73.400 72,000 53 857
69.700 +0.300 88,780 88,300 90 978 89.400 -0.075 89.900 89.475 1.533 4.940 69.800 +0.250 86.800 88.500 70.975 -0.125 71.130 70.800 71.200 +0.180 70.700 89.909

LONDON TRADED OPTIONS

105 18 90 28 76 40 E COMPER 109 85 70 45 68 98 117 145 COCCA LIPPE

23 LONDON SPOT MARKETS III CRUDE OIL FOB (per barrel) \$20.40-0.43x \$21.83-1.87 \$22.31-2.35

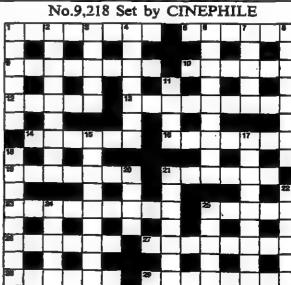
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CROSSWORD



G has the same meaning wherever it occurs in the cines **ACROSS** emperor, one extreme in

his refusal (8) for protection (6) 9 Soaking mixture produced without effect of rain (8)

10 Chessman taking another before dark (6)
12 Hero of railway police? (2.3)
13 Changes are at odds with anchorage (9)
14 Beardsley's biographer, G by re-formation (6)
16 The coin is for a saint (7)
19 Come back from space into the tarrens? (2.5) efore dark (6)

the terrene? (2-5)
21 G coat stolen by sailors to escape going to church (6) 23 G rings round heads where

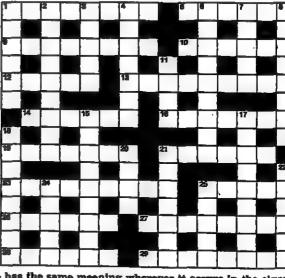
things are stored 'iggledy-piggledy, we 'ear (9) 25 Part of plough, G for retaining government control (5) 26 At last setter's got some salad (6) 27 Terror long ago caused by a quarrel about French

eaders (8)

28 Drink making one go wrong and timed about it 29 Footwear for people who make mistakes? (8) DOWN

1 Anaesthetic, if G used in relation to phases of the **moon** (6) 2 Safety device to heat up car, G in case of takeover

Wrinkly but easier to write straight on? (5)



4 Hospital worker in neat

6 Leaving present, if G, for workers with fish (9) 7 G bird decapitated bound 8 Did a task needed to store

information (4,4)
11 G object of worship could
be binding (4) 15 G dog making a recovery? 17 Bird, uncertain in age, in land of leisure and luxury (9)

18 Go forward or go back, right into the crowd (8) Draw a line in principle, maybe G (4) 21 A clutch, perhaps, awfolly

stiff before mid-July (7) 22 Truly ancient goddess keeping time briefly (6)
24 Something G to see resur-rected before decease (5) 25 Railway's climbing heaven-

ward to find G treacle (5)

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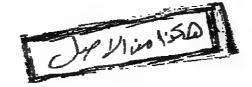
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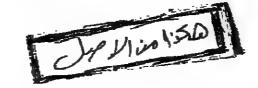
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LONDON STOCK EXCHANGE

Gilts to equity switch restrains UK shares

By Steve Thompson, UK Stock Market Editor

Talk of a series of switching operations, involving institutions shifting funds from UK equities into gilts, plus a continuation of sterling's recent strength, kept the pressure on London stocks vesterday.

Rumours of a switch between the two markets was highlighted by signs of heavy business in index options. Gilts reaped the benefit with the 10-year and 20year issues around 22-24 ticks ahead near the close.

endured another buffeting vesterday, closing 7.0 off at 3,921.1.

reasons behind equities' poor strength against leading currenbig international stocks and deal- retreated 3.1 to 2.150.9. ers continued to worry about the possibility of further increases in base rates in the run-up to the general election.

The US election, being held yesterday, was another factor said to have troubled European The FTSE 100 index, which has bears adopting the view that a sectors.

surprise UK interest rate rise. Democrats could result in a vigorous spending programme.

Also worrying traders was the But there were other potent sell-off in the second-liners and small cap stocks yesterday. The showing yesterday. Sterling's FTSE 250 underperformed the leaders, sliding 13.2 to 4.405.2, cies was said to have affected the while the Small Cap index

There was more had news with disappointing figures from Marks & Spencer, the UK's leading retailer. M&S shares, heavily weighted in the FTSE 100 index, dropped more than 5 per cent, causing considerable damage to markets at the outset, with some sentiment in the consumer

had to cope with flurries of sell-ing pressure since last week's Bill Clinton and Congressional on the back foot, slipping some 7 points shortly after the opening, and fell further during the morning, with the index down just over 17 points at worst.

The midday release of BP's third-quarter numbers gave a boost, and Footsie embarked on a gradual rally which took it back to almost level before it fell away

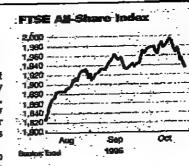
Wall Street's strong rise early yesterday helped London stocks regain some confidence. The Dow Jones Industrial Average was up over 40 points not long after the US market opened.

Marketmakers said the emergence of a series of medium-sized

much of the sell-side activity by institutions had been completed. although some adopted the view that the potential for further increases in UK interest rates

would result in further falls. Others, however, pointed to Wall Street's rally and said the growing feeling was that the next meeting of the Federal Reserve's monetary policy-making committee, starting on November 13, would see the US authorities hold the line on interest rates.

Turnover at the 6pm count was 781.9m and split evenly between leaders and second-liners. Customer business on Monday was a lowly £1bn.



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Active trading in BSkyB

By Peter John, Lisa Wood

BSkyB was under pressure despite support from the stabilisation process following News Corp's \$1bn preference share issue.

The issue of special preference shares by Mr Rupert Murdoch's media empire. which will be exchangeable into BSkyB stock, is being handled by Merrill Lynch.

The exercise price of the warrants represented a 20 per cent premium to the price of BSkyB shares in London before the warrants began trading yesterday and Merrill can buy BSkyB shares to stabilise the price for 30 days.

In early trading, the shares were up 14, but broker buying was undermined by a sell note from Lehman Brothers, Lehman began coverage of the satellite broadcaster with a valuation of only 481p a share. It believes the increased cost of buying programmes, as well as more government regulation to ensure increased competition, could under-

mine profits. Despite a big fall on Monday. BSkyB failed to recover and ended the day only 11/4 firmer at 5484p with the two-way pull on the stock ensuring very heavy volume of nearly 30m shares.

the announcement of its third-quarter figures.

The market had been brac-ing itself for bad news following last week's disappointing figures from Shell. The nervousness was increased by the recent jump in sterling - hitting the profits of big dollar earners and the recent correction in

underlying oil price. As it was, both the underlying profits were at the top end of the range of analysts' forecasts and the figures from the refining and marketing side were particularly encouraging.
Analyst Mr Steve Turner

of HSBC James Capel commented: "There is no great ammunition for the bears in these figures. If it were not for the oil price and sterling the shares would have performed better." BP rose 2 to 640'4p while Shell Transport fell 7 to 958 p.

Marks & Spencer fell 26 to 483p after first-half results showing profits growth of 11.6 per cent. This disappointed the market which had forecast up to a 20 per cent increase in profits - an expectation which Sir Richard Greenbury described as "naive".

One analyst said the results were good but dull, with M&S a low-risk stock providing average reward. Several analysts downgraded forecasts for the stock. which is on a premium rating. ABN-Amro Hoare Govett trimmed its full-year estimate from £1.16bn to 21.11bn with the stock a "weak hold". UBS took £40m

siasm to help BP remain in off its forecast to £1.12bn positive territory following while retaining its positive view on the stock.

Lloyds Chemists fell 5½ to 511p after the market was disappointed by the price at which Gehe, the German pharmaceuticals distributor. launched a bid. Unichem has already made an offer for the chemist chain. The Gehe bid. while topping Unichem's cash and share offer, was not as high as expected.

Dixons hardened 5 to 549p after NatWest Securities upgraded its forecast for the year ended April 1977 from £180m to£195m and from £210m to £225m for the following year. Most forecasts for the current year have been between £180m and

UK generators, National Power and PowerGen were squeezed higher on stock shortages after the recent UBS recommendation, which

lowing mutterings of a possible bid from Shell. National Power lifted 16 to 417%p and PowerGen 1314 to 534p.

focused attention on safe

high-yield stocks at a time of

There was also vague bid

speculation in the sector, fol-

uncertainty.

Lloyds TSB was weak, as one broker apparently went round offering 6m shares at 383p a share. With half the deal carried out just before the close, the shares were off 3½ at 383p.

Bank of Scotland dipped

1% to 277p, although further falls were stemmed by Goldman Sachs which included the stock in its European banking portfolio. Mercury Asset Manage

ment fell 20 to 1122%p despite a 28.6 per cent leap in profits. The shares outperformed the FTSE All-Share index by 20 per cent over the past 12 months.

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LIPPE Boxity options

Better than expected interim results initially lifted Whitbread a few pence, but the shares then fell back 4 to 736%p on trade of 5.5m shares, an unusually

high volume for the stock. Analysts said there had been some switching into other stocks, particularly Greenalls, which rose 174 to 588%p, with SGST recommending the stock as a "buy". Scotiish & Newcastie, which hardened 5% to 648¼p, was also said to be a beneficiary of some switch-

ing from Whithread. Pirst Leisure fell 9 to 360%p after a disappointing trading statement, with market conditions for bingo said be depressed Ladbroke, which also has substantial interests in bingo, fell 31/4 to 194%p in sympathy. Diversified industrials company Cookson Group gave up 8 to 217/sp after trade of 5.2m. after Crédit Lyonnais Laing weighed in with a sharp

Crédit Lyonnais cut its current year profits forecast by £23m to £170m and reduced the following year's figures by £36m to £189m. Explaining the move, Mr lan Rennardson at Crédit Lyonnais said: "The electronic materials division - responsible for a third of profits is showing no signs of improving this year and signs for 1997 are not very positive so far."

in the rest of the sector. Tomkins were wanted and the shares hardened 3% to 255p on volume of 7.7m. BTR added 5 to 255p. Albert E Sharp favours the

stock and suggested inves-

tors should "buy for growth British Airways was one of the day's best performers. The shares jumped 18% to 568p after posting interim

Sentiment in the stock was boosted by expectations that the carrier's tie-up with American Airlines will soon receive approval.

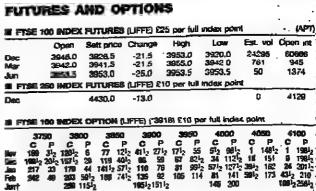
Bid speculation continued in Vodafone Group. The shares gained another 41/2 to 246p, in heavy trading of 13m, with AT&T of the US still thought to be the most

ikely predator.
Fairway, the printing services group, fell 28% to 81%p

in the printing services group fell 28% to 81%p

in the printing services group. following a profit warning.

More Group dropped 13%
to 684p as the billboard and bus shelter advertiser announced a one-for-four rights issue at 600p a share to part-fund the £78.1m acquisition of Wennergren Williams, the Swedish outdoor advertiser.



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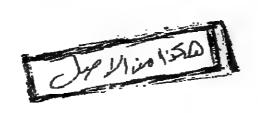
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Highs & Lows shown on a 52 week basis WORLD STOCK MARKETS
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Bonds lift Dow at midsession

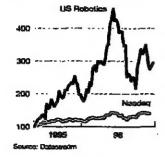
AMERICAS Soaring bond prices and hopes that the political landscape would remain largely unchanged sent US shares higher at midsession. writes Lisa Bransten in New York

At 1 pm, Dow Jones Industrial Average was 43.98 stronger at 6,085.66, the Stan-713.84 and the American Stock Exchange composite climbed 1.58 at 573.34. Volume on the NYSE was 278m

Bond prices started the

US Robotics

Index and share price (rebased)



day higher as the dollar rose against both the yen and the D-Mark, sending the yield on the benchmark 30-year Treasury to its lowest level since early March.

Falling bond yields led to gains among interest-rate sensitive banks. Chase Manhattan Bank added \$2% to \$887, Citicorp climbed \$21/2 to \$102, BankAmerica was \$2 stronger at \$931, and Bank of New York rose \$1'a at \$331...

Technology shares also contributed to yesterday's rally as shares in the sector rebounded after dropping since the middle of last month.

By early afternoon, the Nasdaq composite, which is about 40 per cent technology Exchange technology index C\$88.40.

The second most active share on the Nasdaq was US Robotics, which recovered \$4% of the \$18% it had lost since October 15 bringing the shares to \$63%. Late on Monday, US Robotics reported earnings of 71 cents a share, nearly double what the company made in the dard & Poor's 500 rose 7.11 at comparable period last year and in line with analysts'

> expectations. The largest companies on the Nasdaq were also sharply higher.

Intel added \$2% at \$113%, Microsoft was \$3 stronger at \$141 and Cisco Systems added \$25 at \$83%.
Meanwhile, fortunes were

mixed at volatile Internet companies. Yahoo!, the Internet directory company, lost \$1% at \$17% and Cybercash, an Internet commerce company, shed \$1/2 at \$27%. Netscape Communications. the internet software group, rose \$1 to \$47%.

Shares in MCI slipped \$1%. or 5 per cent, to \$29% amid worries that British Telecommunications' buyout of the company could face considerable delays. MCI shares had jumped \$5% as news of the takeover emerged

TORONTO pushed further into record territory at midsession with banks, property and utilities all posting strong gains. The early advance on Wall Street helped underpin sentiment and the TSE-300 composite index was up 46.60 at

There were slack performances during the morning energy and mining stocks, but for the most part, it was another session of steady buying. Bank shares came in for special attention with Royal Bank of Canada up C\$1.05 at C\$46.70 and Toronto-Dominion C\$1 better at C\$34.10.

Elsewhere among bluechips. Alcan gained 5 cents to C\$43.15 and Seagram put shares, was up 10.26 at on 70 cents to C\$49.80. North-1,230.74 and the Pacific Stock ern Telecom gained C\$1.20 to

Caracas drops 2.9%

investors reacted negatively to the strong gains built up

MEXICO CITY picked up hunting and as hopes grew of a fall in domestic interest rates later in the day.

was 37.84, or 1.2 per cent, 4.61 to 586.87.

50 basis point decline in 28 the day. BUENOS AIRES made con- trade today and tomorrow.

through the morning, helped from a dull start on bargain by the solid early showing on Wall Street. At midsession the Merval

ates later in the day. index, which gained 1.5 per the benchmark IPC index cent on Monday, had added

S Africa finishes mixed

Johannesburg pushed indus- to 1,740.1. trials lower, but left gold shares comfortably on the The overall index finished

off 28.9 at 6.924 and industrials dipped 26.9 to 8.148.4 after a day of mostly futures-driven selling.

However, there was good news for golds in the shape of a steadier bullion price. per cent stake.

A mixed session in The golds index gained 7.60

Lyndenburg Exploration provided the brightest news. jumping by R4.40 to R13.10 after the news that Harmony Gold had taken a 45

Political influences strong as bourses rally

EUROPE Bonds rallied and equities followed on reports that the Russian president Mr Boris

been successful. Gains accelerated in the afternoon as Wall Street rose on a traders' election bet, PARIS was buoyed by rallies at Renault and Carrefour and another day of rumour-driven activity at UAP. The CAC-40 ended 45.17, or 2.1 per cent, ahead at 2.187.32

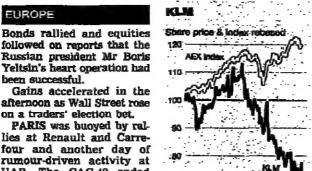
Good news on sales for

October gave both Carrefour and Renault a lift. The supermarkets group ended FFr120 better at FFr2,951, and the carmaker put on FFr4.90 to FFr117.70 after investors learned of a near 25 per cent surge in new car sales in France last month. UAP gained FFr3.90 to FFr111.90 for a two-day advance of more than 5 per cent. Rumours of a takeover bid for the company refused

denial from the rival insurance group Axa. Rhone-Poulenc, one of the strongest CAC 40 performers this year, rose FFr4.20 to FFr154.70 after an upbeat press interview by its chairman, Mr Jean-René Fourtou.

to go away in spite of a

Valeo, the car parts group.



came off sharply on news that a 27 per cent stake in the company, held by Cerus, had changed hands. Dealers said this had softened takeover hopes. The stock ended off FFr8.20 at FFr302.60.

Essilor rose FFr18.50 to FFr411.50 on bid hopes plus a strong sales statement. Saint Gobain, a big stakeholder in the opthalmic specialist, gained FFr19 at MILAN was pushed higher

by soaring bond futures and demand for blue chips which had been neglected during the sale of a second tranche of shares in Eni, the energy giant. The Comit index rose 8 95 to 614.30.

Fiat recouned 5.5 per cent

after its recent slide, helped by the positive market debut of its New Holland subsidiary and further speculation about a restructuring of the car group's chemical

operations. The shares jumped L220 to L4,193 and its chemicals subsidiaries. both suspended limit up on Monday, also remained in the spotlight. Spia added L99 to L1,319 and Sorin Biomedica rose L82 to L5,236.

Shares in Cir. Mr Carlo De immediate response to news

higher at 2.716.16.

Turnover rose from DM7.1bn to DM8.5bn. BASF led chemicals higher, putting on DM1.24, or 2.5 per cent, at DM50.50 after it said that Kohap of South Korea would be taking over its ailing worldwide magnetic tape unit Bayer, which reported a third-quarter rise of 8.3 per cent in pre-tax profits, rose 54 pfg to DM57.94.

Carmakers were influcar sales figures. BMW. after

Benedetti's holding company, jumped 10 per cent in that it was selling its stake in Valeo. The shares subsequently turned back, but still closed L19.2 higher at

FRANKFURT made a mixed start, but it closed with the Dax index 37.43

enced by good October US

Housey changes

Nov 4 FISE Euroback 100 FISE Euroback 200 Burn who 1800 ps/1090; Hyblin; 100 -O FISS internations United 1808, All rights

> DM28.50, or 3.2 per cent, higher at DM918.50. Porsche with sales up by a third, saw its preference shares up another DM20 to DM1,045 for a rise of 26.5 per cent over the past three months. ZURICH, supported by for-

In retailing, Fust and Jelmoli were sharply higher in response to Monday's news that the former Fust owner. Mr Walter Fust, had taken a majority stake in Jelmoli and would offer one Jelmoli bearer for two Fust bearers. Jelmoli rose SFr43 to SFr668 while Fust jumped SF177 to

Alusuisse was SFr22

FTSE Actuaries Share Indices Open 10.30 11.00 12.00 13.00 14.00 15.00 Cham FISE Burgirack 100 1750.18 1750.58 1750.70 1752.26 1759.77 1755.84 1758.63 1758.98 FISE Burgirack 200 1809.02 1809.11 1809.23 1810.46 1812.27 1815.06 1816.38 1815.49

Oct 30 Not 1 Oct 31 1754.97 1758.14 1811.05 1812.44 1748.24 1810.81 1747,44 - 1806,78 100 - 1758.06; 200 - 1817.02 Louising: 105 - 1748.04 200 - 1808.12. † Partici

a rise by a quarter in US higher at SFr963 in response sales on the month, stood out in share price terms, executive. AMSTERDAM registered a

eign demand, the firmer dollar and Wall Street, saw the SMI index rise 35.6 to 3,784.8. Analysts said that a SFr34 jump to SFr1,029 in Swissair came as foreign selling pres-

to news that the chief financial officer Mr Sergio Marchionne would become chief

significant rebound in KLM as the AEX index ended up 4.71 at 586.03. Traders breathed a sigh of relief as news of a planned restruct-uring of the airline emerged with second-quarter results towards the top end of what had been an alarmingly wide forecast range.

KLM shares, hit lately by ws of severe retrenchm in the face of tough trading conditions, surged by almost 5 per cent. closing at Fl 43.80. up Fl 1.90.

Ahold, which on Monday announced to plans to take a half share in a big Brazilan retailer, had another strong session, adding Fl 2.30 to FI 103.50.

Akzo Nobel was up Fi 1.70

quarter results today. Results expectations also gave Unilever a lift. Up 80 cents at Fl 261.20, the detergents to foods glant puts out third quarter on Friday.

On the downside, Poly-Gram retreated Fl 2.20 to F) 76,40.

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MADRID took the line that interest rates would remain favourable in Europe and this, with the day's gains in bonds, lifted utilities and Telefonica as the general index put on 4.35 at 880.69 in turnover of Pts41.46bn.

Banks had a more moderate day, up a percentage point as Ms Susan Leadem of Goldman Sachs, recommending a market weight for the sector, noted their attempts to diversify out of an extremely profitable domestic banking environment with wide, but declining customer margins.

MOSCOW moved cautiously ahead as President Boris Yeltsin underwent heart surgery, although analysts noted that a successful outcome to the operation had already been discounted. The Moscow Times index finished 1.36 higher at 327.92.

Written and edited by William Cochrane, Michael Morgen and

Karachi kerb traders greet Bhutto dismissal

The dismissal of Pakistan's prime minister Ms Benazir Bhutto and her government drove share prices sharply higher in kerb trading in KARACHI, where exchange was closed for a religious holiday.

Dealers said up to 500 investors, more than could be found on the floor of the exchange on a normal working day, had flocked to trade in the parking lot outside the exchange.

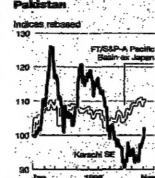
Analysts commented that the removal of the Bhutto government, under fire for alleged corruption and mishandling the economy, could lift a cloud of uncertainty from the market. If the caretaker administration could initiate a fair accountability process it could help restore investor confidence in the longer term, they said.

The market jumped 2.8 per cent on Monday on demand for blue chips following a rise in synthetic fibre prices and some favourable corporate results. Based on kerb tations were growing for a a prices quoted yesterday, one analyst suggested the marday Cetes, or T bills, later in ket could jump by as much as 6-7 per cent in official

holiday weekend and fell in parliament, have threatback in thinning volume on investor hesitation ahead of the US elections and Thursday's special parliamentary session to confirm the Japanese prime minister, writes

40.73 to 20,592.33 after moving between 20,494.01 and 20,690.16. The Topix index of declined 3.77 to 1,553.80 and the capital-weighted Nikkei 300 was off 0.79 at 291.26. Volume dropped to an esti-

mated 203m shares from Friday's 287m as investors showed marked rejuctance to commit themselves either way. Declines led advances by 572 to 458 with 208 unchanged.



50 index rose 0.44 to 1.413.98. Traders noted mild concern among some domestic investors over the US elections, centering on the congressional race and implications for the US budgetary deficit of a possible Democratic sweep of the House and Senate. However, the dominant issue for the market was the domestic political situation and the likely cabinet line-up of the LDP led minority government.

There were anxieties, too, that the LDP would be unable to govern effectively without a formal coalition. Already the Socialists, in spite of a tacit agreement to TOKYO returned from its back the LDP on key issue ened to block the forthcom ing budget for fiscal 1997 over objections to expenditure on US military forces

among other issue Electricals and telecommunications issues suffered The Nikkei 225 average fell from foreign selling pressure. Matsushita Electric Industrial fell Y10 to Y1,850 and Sharp lost Y10 to Y1.720. Among telecoms, DDI, down Y48,000 at Y800,000, fell on last Friday's lower than expected earnings for the first-half to September. NTT lost Y10.000 to Y777.000.

investors also sold issues of non-bank financial institutions following the collapse on Tuesday of the real estate company Sueno Kosan under a mountain of loans from in London, the ISE/Nikkei such institutions. Nippon

Shinpan, the largest pro-vider of credit card services, fell Y17 to Y688 and JACCS. another leading consumer credit company, slid Y12 to

Pharmaceuticals drew buying interest on a rise in chemical issues in New York. Shionogi gained Y11 to Y888 in spite of reporting poor first-half earnings. Takeda Chemical Industries gained Y30 to Y2,030 and Fujisawa Pharmaceutical added Y18 to Y1.010. In Osaka, the OSE average

lost 1.71 to 21,264.07 in volime of 21.3m shares HONG KONG fell sharply in late trade as profit-taking pulled the market back from Monday's peak. The Hang Seng Index dropped 56.70 to

Telecom dropped 25 cents to HK\$13.35 as first-half results proved in line with expecta-SINGAPORE saw a flurry

of buying in the national steel company NatSteel after a number of brokers upgraded the stock. NatSteel rose 18 cents to S\$2.72 while the Straits Times Industrial index lost

5.55 at 2,070,23. SEOUL dropped another L8 per cent on continuing concerns of an oversupply of stock this month. The composite index finished 13.77

wer at 733.65. BOMBAY was weak as index stocks took their lead from a Rs18.25 drop in ITC to Rs289 and the BSE-30 index fell 29.88 to 3,062.84.

SHANGHAI's hard cur-

technical rebound which took the index 0.255 higher at 47.135 while SHENZHEN's B index fell 0.82 to 89.85 on seculative selling. DHAKA continued to

punch into new high ground spite of what dealers cribed as visible signs of profit-taking. At the close, the all-share index was up a further 1.7 per cent, extending its rally over the past four days' trading to more than 20 per cent. It stood at 3,648.74, up 61.06.

BANGKOK closed modestly higher with the SET index up 6.04 at 919.01. Brokers said trading volume remained quiet as the market watched political developments ahead of the general election to be held on

November 17. SYDNEY showed little A\$16.84.

change in flat volume with investors sidelined by the Melbourne Cup horse race. The All Ordinaries index ended up 4.1 at 2,361.6.

Dealers said that trading came to a virtual halt during the afternoon as the Melbourne Cup got underway. 'It's a holiday in Victoria and the rest of the country tends to follow suit," said one broker. At A\$433m, turnover was

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House heart with the Part of the s

very light in spite of hopes for an interest rate cut today. News Corp hardened two cents to A\$7.23 as analysts speculated on possible synergies from the MCI/British Telecom merger.

Email, the white goods group, added 15 cents to A\$3.77 on strong results. BHP came off 14 cents to

CARACAS was sharply higher by midsession at lower yesterday morning as Analysts noted that expec-

The IBC index was trailing by 29 per cent at midsession. It stood at 5,743.11,

tinued steady progress

South African Breweries came off 75 cents to R120.75 and Iscor, the steel producer, slipped 5 cents to R329 in heavy volume.

Guen Robinson all first-section stocks

12,502.70, off an intraday high of 12,616.37. Hongkong rency B shares rose on a FUTURES-OPTIONS-FOREY OAL **24 HRS** Tel.: 0171 329 3030 Fax: 0171 329 0545 Limited Internet: http://www.textor.com/markets/cal/ BERKELEY FUTURES LIMITED 38 DOVER STREET, LONDON WIX 3RB TEL: 0171 629 1133 FAX: 0171 495 0022 & FOREX RIVATE CLIENTS WELCOME **PMarket-Eye** FREEPHONE 0800 321 321 FAX 0171 398 1001

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TENDER NOTICE

UK GOVERNMENT ECU TREASURY BILLS For tender on 12 November 1996

The Bank of England announces the issue by Hei Majesty's Treasury of ECU 1,000 million nominal of UK Government ECU Treasury Bills, for tender on a bid-yield IV. 12 Novembi 50 million nominal of Bills will be allotted directly to the Bank of England for the account of the Exchange

Equalisation Account. 2. The ECU 1,000 million of Bills to be issued by tender will be dated 14 November 1996 and will be in the fol

ECU 200 million for maturity on 12 December 1996. ECU 500 million for maturity on 13 February 1997. ECU 300 million for meturity on 15 May 1997.

 All tenders must be made on the printed application forms available on request from the Bank of England. Completed application forms must be lodged, by hand, at the Bank of England, Customer Settlement Services, Threadneedle Street, London not later than 10.30 a.m., London time, on Tuesday, 12 November 1996. Payment for Bills allotted will be due on Thursday, 14 November

4. Each tender at each yield for each maturity must be made on a separate application form for a minimum of ECU 500,000 nominal. Tenders above this minimum must be in

multiples of ECU 100,000 nominal. 5. Tenders must be made on a yield basis (calculated on the basis of the actual number of days to maturity and a year of 360 days) rounded to two decimal places. Each application form must state the maturity date of the Bills for which application is made, the yield bid and the amount

6. Notification will be despatched on the day of the tender to applicants whose tenders have been accepted in whole or in part. For applicants who have requested credit of Bills in global form to their account with ESO, Euroclear or CEDEL, Bills will be credited in the relevant systems against payment. For applicants who have requested definitive Bills, Bills will be available for collection at Customer Settlement Services, Bank of England after 1.30 p.m. on Thursday, 14 November 1996 provided cleared funds have been credited to the Bank of England's ECU Treasury Bills Account No. 59005516 with Lloyds Bank Plc, Bank Relations. St George's House, PO 80x 787, 6-8 Eastcheap, London EC3M 1LL. Definitive Bills will be available in amounts of ECU 10,000, ECU 50,000, ECU 100,000, ECU 5,000,000 and ECU 10,000,000 PCU 100,000
and ECU 10,000,000 nominal. 7. Her Majesty's Treasury reserves the right to reject any or part of any tender.

8. The arrangements for the tender are set out in more detail in the Information Memorandum on the UK Government ECU Treasury Bill programme issued by the Bank of England on behalf of Her Majesty's Treasury on 28 March 1989, and in supplements to the Information Memorandum. All tenders will be subject to the provisions of the Information Memorandum (as supplemented) and to the provisions of this notice.

9. The ECU 50 million of Bills to be allotted directly to the Bank of England for the account of the Exchange Equalisation Account will be for maturity on 15 May 1997. These Bills may be made available through sale and repurchase transactions to the market makers listed in the Information Memorandum (as supplemented) in order to facilitate settlement.

10. Copies of the Information Memorandum (and supplements to it) may be obtained at the Bank of England. UK Government ECU Treasury Bills are issued under the Treasury Bills Act 1877, the National Loans Act 1968 and the Treasury Bills Regulations 1968 as amended.

Bank of England 5 November 1996

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Farland (24)216.67	03	195 05	155.84	170.45	206.4B		2.43	216 01			170.30		229.99		226.05
France 1938 202.17	0.3	182 00	145.42	159.05	162,32		2.99	201 56		144 73			202.17		
Germany (581	-0.2	162.64	129.25		142,13	-0.4	1,74	181.QG			142.70		181.65	156.00	159.13
Hong Kong (59)468 04	0.3	421 34	336.65	368 20	464,64	0.3	3.29	466.60			367.87		470.59	354.67	377.68
Indonesia (27) 208.56	19	187.77	150.03	164,09	298.14	2.0	1.69	204.66			161.35		-	-	-
Jretand (16) 317 98	0.3	286.25	228 72	250.15	271.70	-0.2	331	315.93			249.87		317.98		248.63
Make 1584 75.68	03	68,13	54.44	59.54	85.90	0.2	2.42	75.44		54.17	59.48	85.74	84.53	57.22	71,91
Japan (450) 138.36	-02	124.55	99.52	108.64	99.52	σ¢	0.77	138 60		99.52			164.68	137.62	
Malaysia (107)	0.1	519.81	419.33	454.25	561.59	0.0	1 17	576.92					587.74	425.77	
Merico (27) 1106.52	0.3	1050,13	\$39.05		10105.99	-02	1 30	1163,24	1053.21	835.23	917.11	10130.12	1325.65	791.99	901.63
Netherland (191	-0.1	276 54	220.96	241.66	237.83	-04	3.08	307.38	278.31	220.70			314.85	252.71	254,73
New Zenland (15)91.17	-0.4	82.07	65.58	71.72	68.31	-04	4 02	91.51	82.85	65.71	72.15	68.58	94.35	75.94	81.08
Norway (35) 268.25	0.4	241,48	192.95	211 03	231,46	0.0	2.19	267.07			210.56		26B.25	222.24	227.27
Philippines (221	1.3	169.76	135.64	148,35	246.37	1.2	0.64	196.37	168.74	133.82	146,94	244.13	_	_	-
Smaapore (43) 379.78	0.5	341.89	273.17	298.77	246.30	0.1	1.09	379.13			296.91		465.21	351.94	370.31
South Africa (44)	-07	300.75		262.38	342 66	-0.4	2.24	335.92	304.14	241.19	264,84	344.16	437.76	314,20	362,79
Span (37) 186 80	0.3	168.21	134.40	147.00	180 45	0.2	331	186.28	168.66	133.75	146.87	180.14	190.09	147,48	147.87
Sweden (48),	-0.2	352.46	281.62	10,800	382.63	0.0	2.24	392.37	355.25	281.72	309.34	202.48	400.14	294.19	311.49
Switzerland 37	0.5	217.72	173.95	190.26	190.31	0.3	1.55	240.73	217.96	172.85	189.79	189.76	254.34		
Thailand (45), 113 73	-01	102 39	81.81	89 47	112.52	-0.2	3.05	113.B4	103.07	81.74	88.75				155.34
United Kingdom (213) 260 96	0.1	234.92	187.70	205.29	234,92	-05	=.02	260 75	236 09	187.22	205.58		261,17		
USA (624)	04	258.82	206,80	226 18	287.51	0.4	2.07	286.24	259.17	205.53	225.68				241.78
Amencas (795)	0.4	237.03	189.39	207,14	221.27	0.4	2.06	262.17	237.38	188.25	206.70	220.33	264.65	218 79	220.32
Europe (719) 223 85	0.1	201.50	161.01	176 10	190.94	-0.2	3.07	223.57	202.42	160.52			225.29	193.02	
Norde (137)	0.0	300.72	240.27	262.79	386.32	0.1	2.19	334.01			263.33	266.08		261.13	
Pacific Basin (876) .154.62	-01	139.19	111.21	121.64	112.30	0.1	1.25	154.71	1-0.07	111.08				150.59	
Euro-Pacific (1595) 185 75	0.0	165.06	131,88	144.24	141.94	-0.1	2.15	183.28		131.60				168.34	
North America (740)281.33	0.4	253.26	202,35	221.32	280.29	0.4	2.07	280.10				279.06			
Europe Es. UK (506) 199 27	0.2	179.39	143.33	156 77	164.95	-0.0	2.42	199.98		142 86				234,19	
Pacific Ec. Japan (396)	03	267.76	213.94	233.99	257.23	0.4	2.89	296 39						173.04	
	0.0			145.89										243.59	
World Ex US (1910) 185,45		166.95	133.39		147 15	0.6	2.14	185.38		133.11		147.21	191.55	169,39	
World E. UK (2001)	0.2	191 99	153.40	167 78	182.72	0.2	1.90	212.79	192.66	152.78		182.28		188.59	
World Ex. Japan (1954)259.23	03	233.37	186 40	203.94	243 57	0.2	2 44	258,43	233.99	185.56	203.75	243 06	260.37	219.88	220.70

